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## Results of the late summer entomological trip from Van to Ankara in 2013 (*Insecta*, *Pterygota*)

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**Abstract:** Results of the late summer entomological trip from Van to Ankara in 2013 (*Insecta*, *Pterygota*). *Cesa News* 93: 1-37, figs.

In the provinces of Kırşehir, Kayseri, Sivas, Bingöl, some diurnal species were recorded or observed in August of the following nine pterygot orders, together with the numbers of their reported families: *Dermaptera* (1), *Orthoptera* (1), *Hemiptera* (5), *Homoptera* (2), *Planipennia* (1), *Lepidoptera* (12), *Diptera* (4), *Hymenoptera* (10), *Coleoptera* (4). Among them, totally 35 specific records are new to the fauna of various provinces. Besides, 25 nocturnal moths, belonging to *Cossidae*, *Pyralidae*, *Geometridae*, *Noctuidae*, *Lymantriidae*, *Sphingidae*, are reported from Malatya Province, of which 16 species are new to the province. Totally 49 images of the species taken in nature, are also given here.

**Key words:** *Pterygota*, *Dermaptera*, *Orthoptera*, *Hemiptera*, *Homoptera*, *Planipennia*, *Lepidoptera*, *Diptera*, *Hymenoptera*, *Coleoptera*, fauna, Kırşehir, Kayseri, Sivas, Bingöl, Malatya, Turkey.

In this late summer, a planned entomological trip<sup>1</sup> from Van to Ankara Province (Turkey) for two weeks has been interrupted by a sudden serious health problem. At the end of a successful treatment in the hospital (Ankara), the trip could be completed ahead of the time. Consequently, only four entomological days have been realized by the authors. Collected specimens and the photographs are in the Cesa collection and archive, respectively. All the taxa were identified by the

<sup>1</sup> Within the research Project of the Cesa, Entomofauna of Turkey. <http://www.cesa-tr.org/Entomofauna.htm>

authors, by using the instruments of the Cesa info-system.<sup>2</sup> Faunistical evaluations are based upon the recent publications on this matter: Kemal & Koçak (2010a,b); Koçak & Kemal (2009, 2012, 2013).

Remarkable results are given in this paper, with illustrations of the present or earlier trips of the authors.

During the travel, the following localities [mentioned with the locality codes] have been studied, going from Van to Ankara on 22-23 August, 2013, and from Ankara to Van on 30-31 August, 2013.

#### Localities studied:

Bingöl Prov., Kuruca Pass 1700m 22 August, 2013, in the openings of *Quercus* woods, dominated by tragacanthic *Astragalus* steppe on volcanic rocky territory [12Ab]<sup>3</sup>

Sivas Prov., Gürün, Ziyaret Pass 1900m 23 August, 2013 subalpine tragacanthic mountain steppe [58Gg].

Kırşehir Prov., Mucur, a resting place 2.5km SW of Obruk village, 1145m 30 August, 2013 [40Gb].

Kayseri Prov., 5km W of Pınarbaşı 1590m, 30 August, 2013, openings of *Quercus* woodland [38Hc].

Sivas Prov., Gürün, 2km NW of Kaynarca village, 1720m, 30 August, 2013. calcareous valley [58Gj].

Malatya Prov., Darende 5km NW 1300m, 30 August, 2013, used PAIT method for nocturnal species. Mountain steppe on calcareous rocks [44Eh]. Results of this collection will be published separately. However, species easily identified at first sight are mentioned in the footnote. Totally 16 species, marked with \*, are new to Malatya Province.<sup>4</sup>

Bingöl Prov., Solhan, Buğlan Pass W, 1640m, 31 August, 2013, in the openings of *Quercus* woods [12Eb].

## List of the diurnal remarkable species of nine pterygot orders

(for nocturnal species, *vide* footnote)

### ***Dermaptera***

### ***Forficulidae***

<sup>2</sup> <http://www.cesa-tr.org/Infos.htm>

<sup>3</sup> This place was also visited by the authors in previous years. Hitherto recorded species from Kuruca Pass are as follows: **Lepidoptera:** *Arctia (Eucharia) festiva* (Hufnagel, 1766) (Arctiidae); *Argynnis (Fabriciana) niobe* (Linnaeus, 1758) (Argynnididae); *Issoria lathonia* (Linnaeus, 1758) (Argynnididae); *Melitaea (Didymaeformis) fascelis* (Fabricius, 1787) (Argynnididae); *Melitaea (s.str.) cinxia* (Linnaeus, 1758) (Argynnididae); *Nymphalis polychloros* (Linnaeus, 1758) (Argynnididae); *Aplasta ononaria* (Fuessly, 1783) (Geometridae); *Ematurga atomaria* (Linnaeus, 1758) (Geometridae); *Orthostixis calcularia* Lederer, 1853 (Geometridae); *Orthostixis cribraria* (Hübner, 1799) (Geometridae); *Rhodostrophia auctata* (Staudinger, 1879) (Geometridae); *Muschampia tessellum* (Hübner, 1802) (Hesperiidae); *Pyrgus melotis* (Duponchel, 1834) (Hesperiidae); *Celastrina argiolus* (Linnaeus, 1758) (Lycaenidae); *Lycaena (Thersamonia) thersamon* (Esper, 1784) (Lycaenidae); *Polyommatus (s.str. Neolysandra) ponticus* (Courvoisier, 1911) (Lycaenidae); *Quercusia quercus* (Linnaeus, 1758) (Lycaenidae); *Euproctis chrysorrhoea* (Linnaeus, 1758) (Lymantriidae); *Euclidia glyphica* (Linnaeus, 1758) (Noctuidae); *Parnassius (Driopa) mnemosyne* (Linnaeus, 1758) (Papilionidae); *Aporia (s.str.) crataegi* (Linnaeus, 1758) (Pieridae); *Colias (Eriocolias) crocea* (Fourcroy, 1785) (Pieridae); *Chazara briseis* (Satyridae); *Coenonympha pamphilus* (Satyridae); *Maniola telmessia* (Satyridae); *Tortrix viridana* (Linnaeus, 1758) (Tortricidae); *Zygaena (Agrumenia) loti* ([Denis & Schiffermüller], 1775) (Zygaenidae). **Other insects:** *Hemiptera:* *Spilostethus saxatilis* (Scopoli, 1763) (Lygaeidae); *Coreus marginatus* (Linnaeus, 1758) (Coreidae); *Mustha spinosula* (Lefebvre, 1831) (Pentatomidae); **Diptera:** *Eristalis (s.str.) tenax* (Linnaeus, 1758) (Syrphidae); *Eristalis (Eoseritalis) arbustorum* (Linnaeus, 1758) (Syrphidae); **Hymenoptera:** *Vespula germanica* (Fabricius, 1793) (Vespidae); **Coleoptera:** *Oxythyrea cinctella* (Schaum, 1841) (Scarabaeidae); *Ptosima undecimmaculata* (Herbst, 1784) (Buprestidae); *Chlorophorus varius* (O.F.Müller, 1766) (Cerambycidae).

<sup>4</sup> Other species recorded by the authors are as follows: *\*Phragmacossia albida* (Cossidae); *Cynaeda gigantea* (Pyralidae); *\*Pyrausta euergetalis* (Pyralidae); *\*Mecyna lutulentalis* (Pyralidae); *\*Loxostege sticticalis* (Pyralidae); *\*Evergestis desertalis* (Pyralidae); *\*Evergestis politalis* (Pyralidae); *Bradyrrhoa gilveolella* (Pyralidae); *\*Pempelia obductella* (Pyralidae); *\*Synaphe berytalis* (Pyralidae); *\*Dolichartria bruguieralis* (Pyralidae); *\*Stegania dilectaria* (Geometridae); *\*Hypena munitalis* (Noctuidae); *Coreus sp.* (Noctuidae); *Tyta luctuosa* (Noctuidae); *\*Eulocastra diaphora* (Noctuidae); *\*Eublemma gratissimum* (Noctuidae); *\*Eublemma panonicum* (Noctuidae); *Eublemma sp.* (Noctuidae); *\*Zekelita ravalis* (Noctuidae); *Mythimna vitellina* (Noctuidae); *\*Agrotis clavis* (Noctuidae); *Polymona lapidicola* (Lymantriidae); *Laothoe populeti* (Sphingidae).

*Forficula* sp.

Material: 1 ♂ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal leg.

## ***Orthoptera***

### ***Acrididae***

Six specimens of various indeterminated acridids were collected at Ziyaret Pass (Sivas Prov.). The other recorded species are as follows:

*Chortippus dichrous* (Eversmann,1859)

Material studied: 1 ex Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.

*Chortippus biguttulus* (Linnaeus,1758)

Material studied: 1 ex Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.

*Calliptamus* sp.

Material studied: 1 ♂ Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.

*Acrotylus patruelis* (H.-S., 1838) **(Fig. 1)**

Shape of the band on hindwing is important for identification. New to Bingöl Province.

Material studied: 1 ♂ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg.

*Oedipoda aurea* Uvarov,1923 **(Fig.2)**

Material studied: 1 ♂ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg. The species can be easily distinguished in the genus by yellow colouration of hindwing.

*Oedipoda miniata* (Pallas,1771)

Material studied: 1♂ 1♀ Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, A.Koçak leg. The species can be easily distinguished in the genus by reddish colouration of hindwing.

*Oedipoda coerulescens* (Linnaeus,1758)

Material studied: 1♀ Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg. The species can be easily distinguished in the genus by bluish colouration of hindwing.

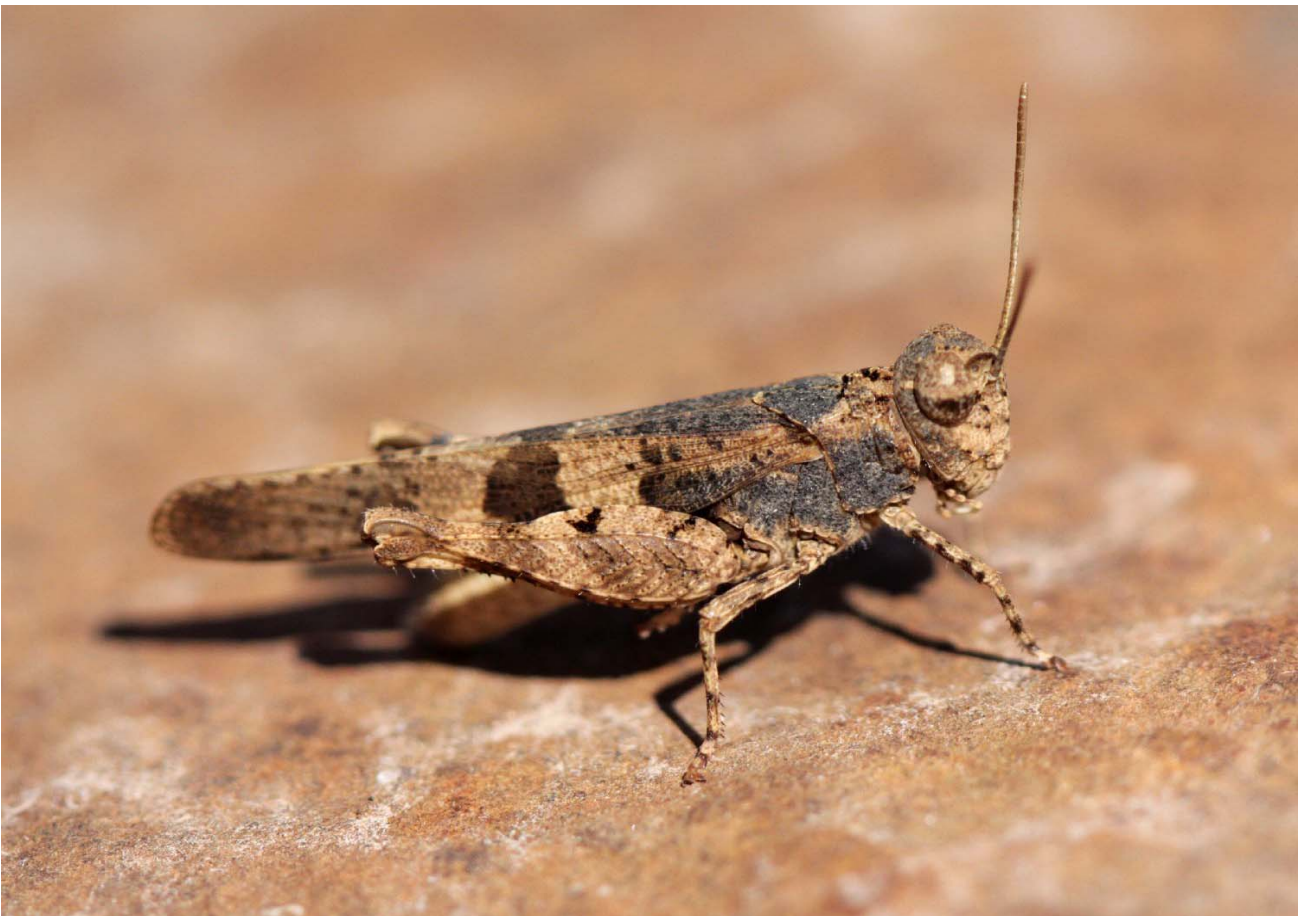
*Sphingonotus* sp. **(Fig.3)**

Material: 1♀ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg.; 1♀ Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, A.Koçak leg.





**Fig. 1-** *Acrotylus patruelis* (Acrididae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013 photo M. Kemal (Cesa)



**Fig. 2 -** *Oedipoda aurea* (Acrididae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013 photo M. Kemal (Cesa)



**Fig. 3** - *Sphingonotus* sp. (Acrididae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013 photo M. Kemal (Cesa)

## ***Hemiptera***

### ***Lygaeidae***

*Spilostethus saxatilis* (Scopoli, 1763) **(Figs.4,5)**

New to Bingöl and Sivas Provinces.

Material studied: 1 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013; 3 ex. Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal & A. Koçak leg.; 2 Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

*Lygaeus equestris* (Linnaeus, 1758) **(Fig.6)**

New to Kırşehir, Sivas and Kayseri Provinces.

Material studied: 1 ex. (observed) Turkey, Kırşehir Prov., Mucur, W of Obruk 1140m 30 8 2013 M. Kemal; 3 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013; 3 ex. Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.; 1 ex Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M. Kemal leg.

### ***Scutelleridae***

*Odontotarsus purpureolineatus* (Rossi, 1790) **(Fig.7)**

New to Sivas Province.

Material studied: 1 ex Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

### ***Pentatomidae***

*Carpocoris pudicus* (Poda, 1761) **(Fig.8)**

New to Bingöl and Sivas Provinces



Material studied: 1 ex Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal leg.; 1 ex Turkey, Bingöl Prov., Kuruca Geçidi, 1700m, 08 06 2013; 1 ex Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.

### ***Rhopalidae***

Material: 1 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal leg.; 4 ex Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

### ***Miridae***

Material: 1 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal leg.; 4 ex. Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal leg.

### ***Homoptera***

#### ***Dictyopharidae***

*Dictyophara* sp. (Fig.9)

This species has not been identified yet.<sup>5</sup>

#### *Cicadellidae*

An indetermined specimen was preserved in the collection.

Material: 1 ex Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

### ***Planipennia***

#### ***Myrmeleonidae***

Material: 1 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 A. Koçak leg.; 1 ex Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, A.Koçak leg.

### ***Lepidoptera***

#### ***Pterophoridae***

Material: 2 ex Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal leg.

#### ***Pyalidae***

*Euchromius bellus* (Hübner,1796) (Fig.10)

New to Bingöl Province.

Material studied: 1♂ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal leg.

*Endotricha flammealis* ([Denis & Schiffermüller],1775) (Fig.11)

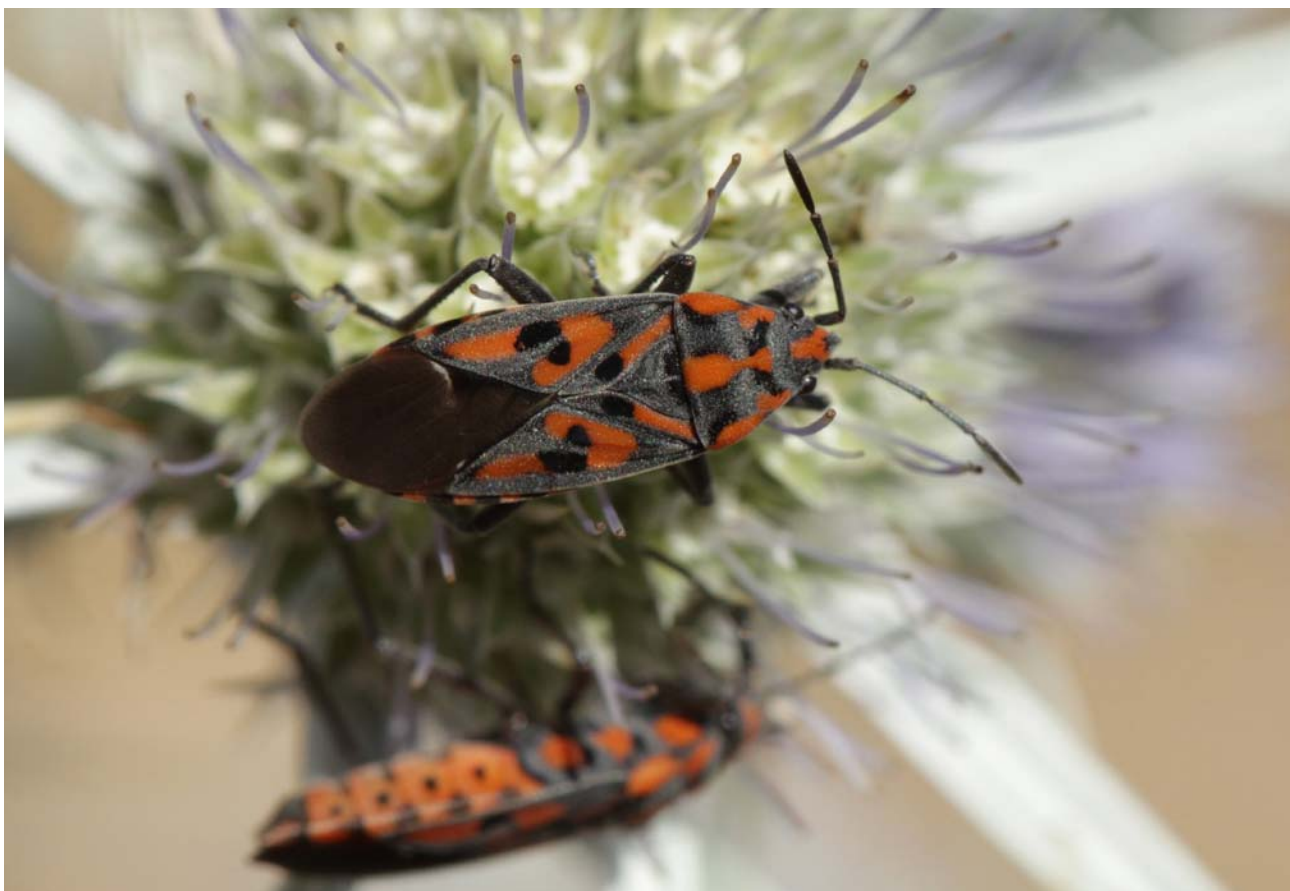
Observed on *Quercus* from Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.

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<sup>5</sup> An important publication on this respect is: Emeljanov,A.F., Stern,T. & A.Freidberg, 2012. The Dictyopharidae (Homoptera, Cicadina, Fulgoroidea) of Israel. *Israel J. Ent.* 41-42: 7-20.



**Fig. 4** -*Spilostethus saxatilis* (Lygaeidae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013 photo M. Kemal (Cesa)



**Fig. 5**- *Spilostethus saxatilis* (Lygaeidae). Sivas Prov., Gürün Ziyaret Pass 1900m 23 8 2013 M. Kemal (Cesa)



**Fig. 6-** *Lygaeus equestris* (Lygaeidae). Sivas Prov., Gürün Ziyaret Pass 1900m 23 8 2013 M. Kemal (Cesa)



**Fig. 7-** *Odontotarsus purpureolineatus* (Scutelleridae). Sivas Prov., Gürün Kaynarca 2km NW 1720m, 30 08 2013. Photo M. Kemal (Cesa)





**Fig. 8** - *Carpocoris pudicus* (Pentatomidae). Bingöl Prov., Kuruca Geçidi, 1700m, 08 06 2013, photo M.Kemal (Cesa)



**Fig. 9** - *Dictyophara* sp. (Dictyopharidae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal (Cesa)

*Pyrausta despicata* (Scopoli, 1763)

New to Sivas Province.

Material studied: 1♂ Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal leg.

*Selagia argyrella* ([Denis & Schiffermüller], 1775) **(Fig.12)**

This phycitid species has been recorded by day at Ziyaret Pass 1900m, Gürün, Sivas Province, on 23 8 2013 (6♂♀), kindly identified by K. Akın.

This record is new to Sivas Province.

*Arsissa divaricella* (Ragonot, 1887)

This species has been recorded by day among the *Astragalus* in the mountain steppe. Apparently common in East Turkey.

Material studied: 1♀ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 A. Koçak leg.  
New to Bingöl Province.

***Tortricidae***

One *Cochylis* specimen was captured at Ziyaret Pass (Sivas Prov.) **(Fig.13)**

Material studied: 1ex Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal leg.

***Sesiidae***

Material: 1♂ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 A. Koçak leg.

***Pieridae****Pieris ergane* (Geyer, [1828])

Material studied: 1♀ [summer generation] Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

*Pieris pseudorapae* Verity, 1908

Material studied: 1♂ [summer generation] Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

*Colias croceus* (Fourcroy, 1785)

Material studied: 1 ♂ Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M. Kemal leg.

*Colias alfacariensis* Ribbe, 1905

Material studied: 1♂ [summer generation] Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 A. Koçak leg.

***Argynnidae****Argynnis (Pandoriana) pandora* ([Denis & Schiffermüller], 1775)

Material studied: Observed, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M. Kemal.

**Satyridae***Arethusana arethusana* ([Denis & Schiffermüller],1775) **(Fig.14)**Material studied: 1 ♀ Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal & A. Koçak leg.*Neohipparchia statilinus* (Hufnagel,1766) **(Fig.15)**

New to Bingöl Province.

Material studied: 1 ♂ Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.*Chazara briseis* (Linnaeus,1764) **(Fig.16)**Material studied: Observed, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal; 1 ♂ Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.*Pseudochazara geyeri* (Herrich-Schaeffer,[1846]) **(Fig.17)**Material studied: 1 ♂ Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal & A. Koçak leg.*Pseudochazara mamurra birgit* Gross,1978Material studied: 1 ♂ 1 ♀ Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal leg.*Maniola telmessia* Zeller,1847Material studied: Observed. Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 A. Koçak.*Coenonympha pamphilus* (Linnaeus,1758) **(Fig.18)**Material studied: 1 ♀ [summer generation] Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 A. Koçak leg; observed, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal.**Lycaenidae***Quercusia quercus* (Linnaeus,1758) **(Fig.19)**Observed on *Quercus* from Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal.*Lycaena asabinus* (Gerhard,[1850])<sup>6</sup>Material studied: 2 ♂ [summer generation] Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg.*Lycaena kefesteinii* (Gerhard,[1850]) **(Fig.20)**Material studied: 2 ♂ [summer generation] on *Noea mucronata* (*Chenopodiaceae*), Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal & A. Koçak leg.*Lycaena aff. thersamon* (Esper,[1784]) **(Fig.21)***Lycaena thersamon* and *Lycaena kurdistanica* Riley are closely related species. For a precise identification, their female genitalia should be examined.Material studied: 3 ♀ [summer generation] on *Noea mucronata* (*Chenopodiaceae*), Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal & A. Koçak leg.*Lycaena tityrus* (Poda,1761) **(Fig.22)**Material studied: 1 ♂ [summer generation] on *Noea mucronata* (*Chenopodiaceae*), Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

<sup>6</sup> Date of publication of Gerhard's paper is based upon Koçak (1980). See Koçak,A.Ö. 1980. Some notes on the nomenclature of Lepidoptera. *Communs Fac. Sci Univ. Ankara* (Ser C3, Zool) 24: 7-25. <http://dergiler.ankara.edu.tr/dergiler/62/1470/16346.pdf>



*Lycaena phlaeas* (Linnaeus,1761) **(Fig.23)**

Material studied: 1♂ [summer generation] Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal leg.; 1♂1♀ Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal & A. Koçak leg.

*Lampides boeticus* (Linnaeus,1758) **(Fig.24)**

Material studied: 1♂ on *Noea mucronata* (*Chenopodiaceae*), Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal & A. Koçak leg.

*Polyommatus* (s.str.) *icarus* (Rottemburg,1775)

Material studied: 1♂ 1♀ [summer generation] Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg.; 2♂ [summer generation] Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal & A.Koçak leg.; 1♂ on *Noea mucronata* (*Chenopodiaceae*), Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal & A. Koçak leg.; 1♂ [summer generation] Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, A.Koçak leg.

*Polyommatus* (*Lysandra*) *bellargus* (Rottemburg,1775) **(Fig.25)**

Material studied: 1♂ [summer generation] Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal leg.

*Polyommatus* (*Thersitesia*) *thersites* (Canterer,[1835]) **(Fig.26)**

Material studied: 1♂ [summer generation] Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal leg.

*Polyommatus* (*Lysandra*) *corydonius* ssp. *caucasicus* (Lederer,1870)

Material studied: 2♀ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg.

*Polyommatus* (*Agrodiaetus*) *menalcas* (Freyer,[1837])

Material studied: 1♂ [observed] Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 A.Koçak.

*Polyommatus* (*Agrodiaetus*) *mithridates* (Staudinger,1878) **(Fig.27)**

Material studied: 1♂ on *Noea mucronata* (*Chenopodiaceae*), Turkey, Sivas Prov., Gürün, Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal leg.

*Polyommatus* (*Agrodiaetus*) *admetus* (Esper,[1783])

Material studied: 1♂1♀ Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal leg.

*Polyommatus* (*Agrodiaetus*) sp.

Material: 2♂ Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal leg.

**Hesperiidae***Spialia* (*Neospialia*) *orbifer* (Hübner,[1823])

Material studied: 2♂ [summer generation] Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg.; 3♂ [summer generation] Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M. Kemal & A. Koçak leg.

*Muschampia* *proteides* (Wagner,1929) **(Figs.28,29)**

Material studied: 1♂ Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal leg.; Material studied: 7♂ Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal & A. Koçak leg.

*Hesperia comma* (Linnaeus,1758) **(Figs. 30,31)**

Material studied: 1♀ Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal leg.; observed, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal.

***Geometridae***

All the following species are recorded by day.

*Aplasta ononaria* (Fuessly,1783)

New to Bingöl Province.

Material studied: 4♂♀ [summer generation] Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal & A. Koçak leg.

*Docivara mundata* (Staudinger,1892)

New to Kayseri Province.

Material studied: 1♂ Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 A. Koçak leg.

*Aspitates quadripunctata* (Goeze,1781)

Adults of this diurnal moth fly among *Astragalus* bushes. Rare. New to Sivas Province.

Material studied: 2 ♂ Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 A. Koçak leg.; 1 ♂ Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 A. Koçak leg.

*Selidosema plumarium* ([Denis & Schiffermüller],1775)

Adults of this diurnal moth fly among *Astragalus* bushes. Commoner than the previous species.

Material studied: 8♂ 2♀ Turkey, Sivas Province, Gürün, Ziyaret pass 1900m 23 8 2013 M Kemal & A. Koçak leg.

***Sphingidae****Hyles conspicua* (Rothschild & Jordan,1903) **(Fig.32)**

This species has been observed in the last larval stage. New to Sivas Province.

***Ctenuchidae****Dysauxes famula* (Freyer,1836) **(Fig.33)**

New to Kayseri Province.

Material studied: 1 ex on *Mentha* sp. Turkey, Kayseri Prov., 5km W of Pınarbaşı, 1590m 30 August, 2013 M.Kemal leg.



**Fig. 10** - *Euchromius bellus* (Pyrallidae) on *Cirsium* sp. (Asteraceae). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013  
photo M. Kemal (Cesa)



**Fig. 11** - *Endotricha flammealis* (Pyrallidae), at rest. Bingöl Prov., Solhan Buğlan Pass 1640m 31 8 2013, M. Kemal (Cesa)





**Fig. 12** - *Selagia argyrella* (Pyrallidae), at rest. Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)



**Fig. 13-** *Cochylis* sp. (Tortricidae), at rest. Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)



**Fig. 14** -*Arethusana arethusa* (Satyridae). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal (Cesa)

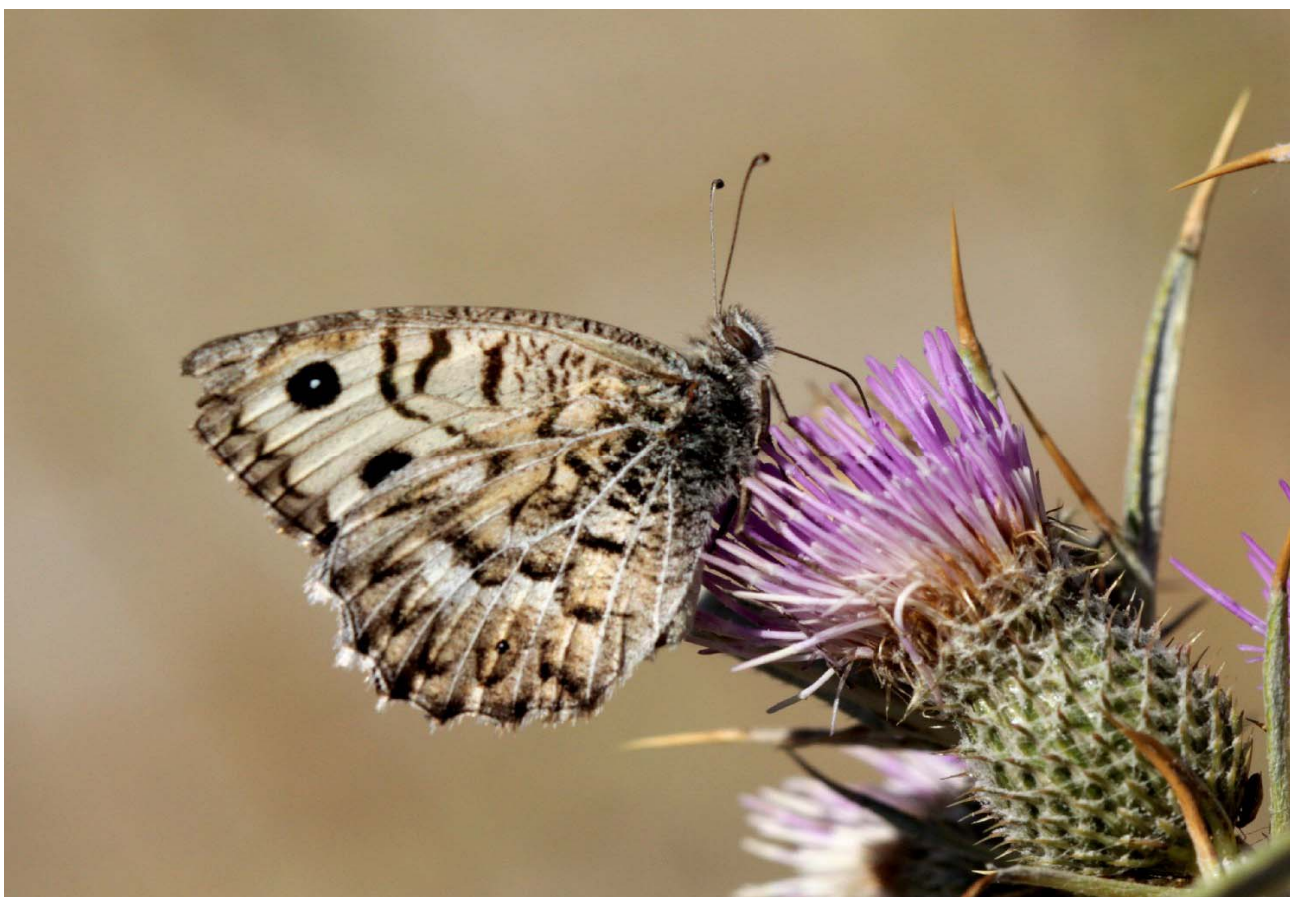


**Fig. 15** - *Neohipparchia statilinus* (Satyridae), at rest. Bingöl Prov., Solhan Buğlan Pass 1640m 31 8 2013, M. Kemal (Cesa)





**Fig. 16** - *Chazara briseis* (Satyridae), at rest. Bingöl Prov., Solhan Buğlan Pass 1640m 31 8 2013, M. Kemal (Cesa)



**Fig. 17** - *Pseudochazara geyeri* (Satyridae). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal (Cesa)





**Fig. 18** - *Coenonympha pamphilus* (Satyridae), at rest. Bingöl Prov., Solhan Buğlan Pass 1640m 31 8 2013, M. Kemal (Cesa)



**Fig. 19** - *Quercusia quercus* (Lycaenidae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal (Cesa)



**Fig. 20** - *Lycaena kefersteinii* (Lycaenidae), a male of summer generation on *Noea mucronata* (Chenopodiaceae). Sivas Prov., Gürün, Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)



**Fig. 21** - *Lycaena thersamon* (Lycaenidae), a female of summer generation on *Noea mucronata* (Chenopodiaceae). Sivas Prov., Gürün, Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)





**Fig. 22** - *Lycaena tityrus* (Lycaenidae), a male of summer generation on *Noea mucronata* (Chenopodiaceae). Sivas Prov., Gürün, Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)



**Fig. 23** - *Lycaena phlaeas* (Lycaenidae), a male of summer generation on *Eryngium* (Apiaceae). Kayseri Prov., Pınarbaşı 1590m 30 8 2013, M. Kemal (Cesa)





**Fig. 24** - *Lampides boeticus* (*Lycaenidae*), a male feeding on *Noea mucronata* (*Chenopodiaceae*). Sivas Prov., Gürün, Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)



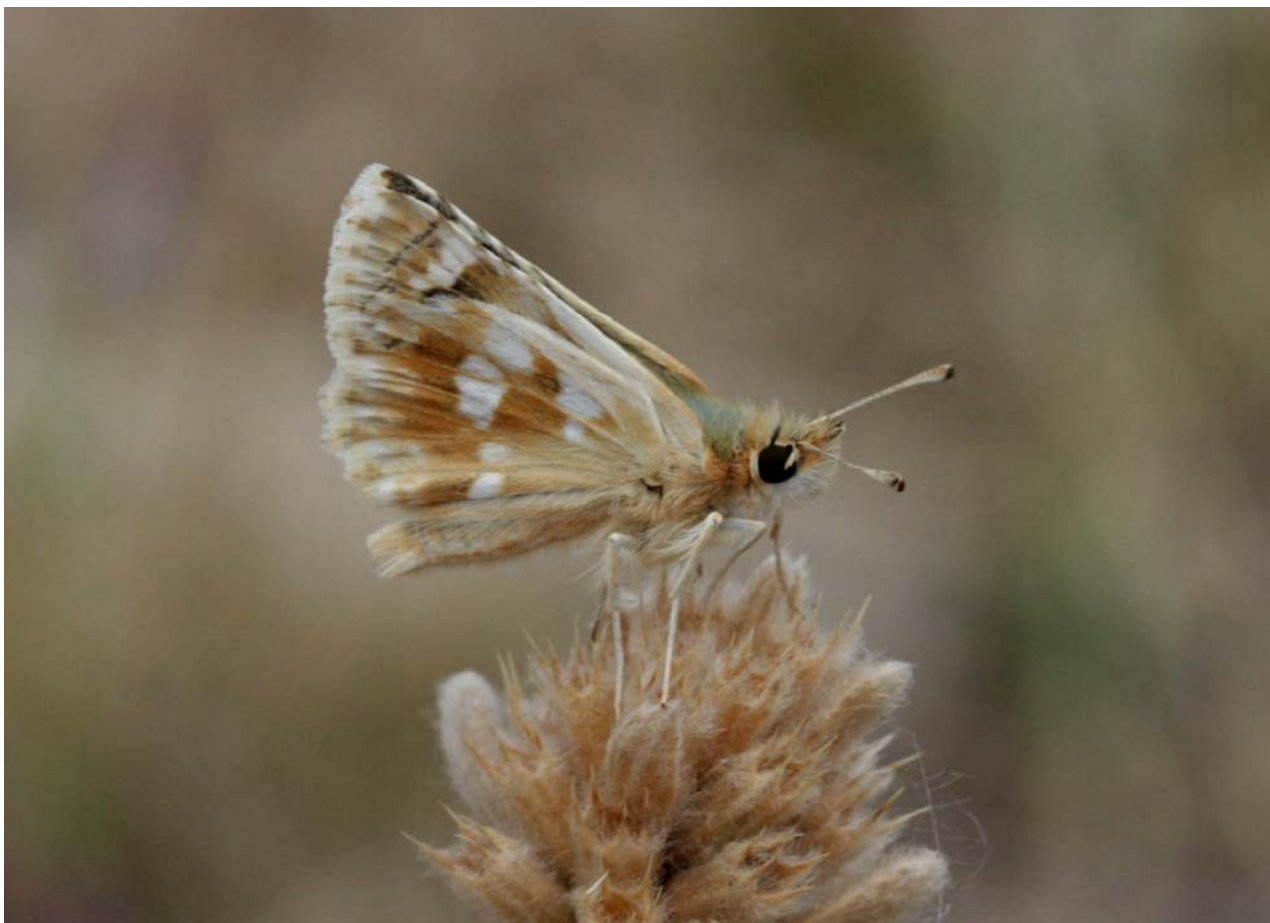
**Fig. 25** - *Polyommatus (Lysandra) bellargus* (*Lycaenidae*), a male of summer generation. Kayseri Prov., Pınarbaşı 1590m 30 8 2013, M. Kemal (Cesa)



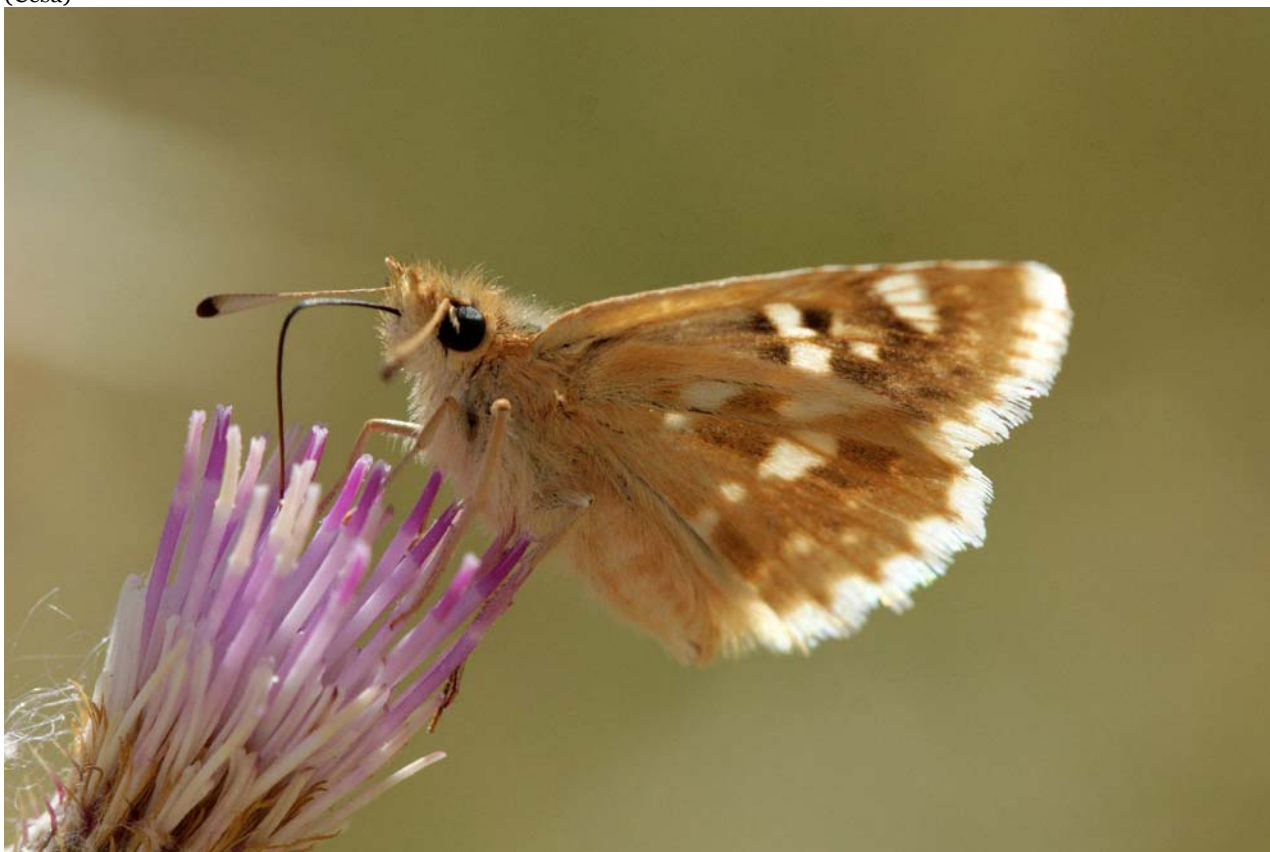
**Fig. 26** - *Polyommatus (Thersitesia) thersites* (Lycaenidae), a male of summer generation on *Noea mucronata* (Chenopodiaceae). Sivas Prov., Gürün, Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)



**Fig. 27** - *Polyommatus (Agrodiaetus) mithridates* (Lycaenidae), a male feeding on *Noea mucronata* (Chenopodiaceae). Sivas Prov., Gürün, Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)



**Fig. 28** - *Muschampia proteides* (Hesperiidae) at rest. Sivas Prov., Gürün, Ziyaret Pass 1900m 29 7 2010, M. Kemal (Cesa)



**Fig. 29** - *Muschampia proteides* (Hesperiidae) during feeding on *Cirsium* flower. Sivas Prov., Gürün Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)





**Fig. 30** - *Hesperia comma* ssp. *pallida* (Hesperiidae) during feeding on *Cirsium* sp. (Asteraceae). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)



**Fig. 31** - *Hesperia comma* ssp. *pallida* (Hesperiidae) during feeding on *Cirsium* flower. Sivas Prov., Gürün Kaynarca 2km NW 1720m, 30 08 2013, M. Kemal (Cesa)



**Fig. 32** - *Hyles conspicua* (Sphingidae), full grown larva on *Euphorbia*. Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)



**Fig. 33** - *Dysauxes famula* (Ctenuchidae), during feeding on *Mentha* (Lamiaceae). Kayseri Prov., Pınarbaşı 1590m 30 8 2013, M. Kemal (Cesa)

**Diptera****Syrphidae***Syritta pipiens* (Linnaeus, 1758) (**Figs.34,35**)

New to Sivas and Kırşehir Provinces.

Material studied: 1 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.; 1 ex. (observed) Turkey, Kırşehir Prov., Mucur, W of Obruk 1140m 30 8 2013 M. Kemal.**Bombyliidae**

Although late August is not the best season for bombyliids, three species could be recorded at Ziyaret Pass. Observations and the photographs belong to *Systoechus* sp. (in copula) (**Fig.36**), and a *Geron* species (**Fig.37**) during feeding. Besides, 2 specimens of 2 species were captured at Gürün Kaynarca (Sivas Prov.).

*Systoechus* sp.Material: 1♂ 1♀ Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.*Geron* sp.Material: 1 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.**Tephritidae**

Captured 2 specimens of 2 species.

Material: 2 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal leg.**Tachinidae**

Two specimens of two species were captured at Ziyaret Pass (Sivas Prov.) and Kuruca Pass (Bingöl Prov.).

*Tachina* sp.Material: 1 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.*Cylindromyia* sp.Material: 1 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal leg.**Hymenoptera****Cynipidae (Figs.38-44)**

Various, mostly fresh galls of wasps on *Quercus* have been observed on 22 August in Kuruca and Buğlan Passes. However, *Gymnosporangium* (*Pucciniaceae*)<sup>7</sup> on *Crataegus* was also common at Kuruca Pass (Bingöl Prov.) (**Fig.38**). *Andricus moreae* (Graeffe, 1905) (**Fig.39**), *Andricus quercustozae* (Bosc, 1792) (**Fig.40**), *Andricus seckendorffi* (Wachtl, 1879) on acorn cups of *Quercus* (**Fig.41**) *Cynips quercusfolii* (Linnaeus, 1758) (**Figs.42,43**), are new to Bingöl Province.

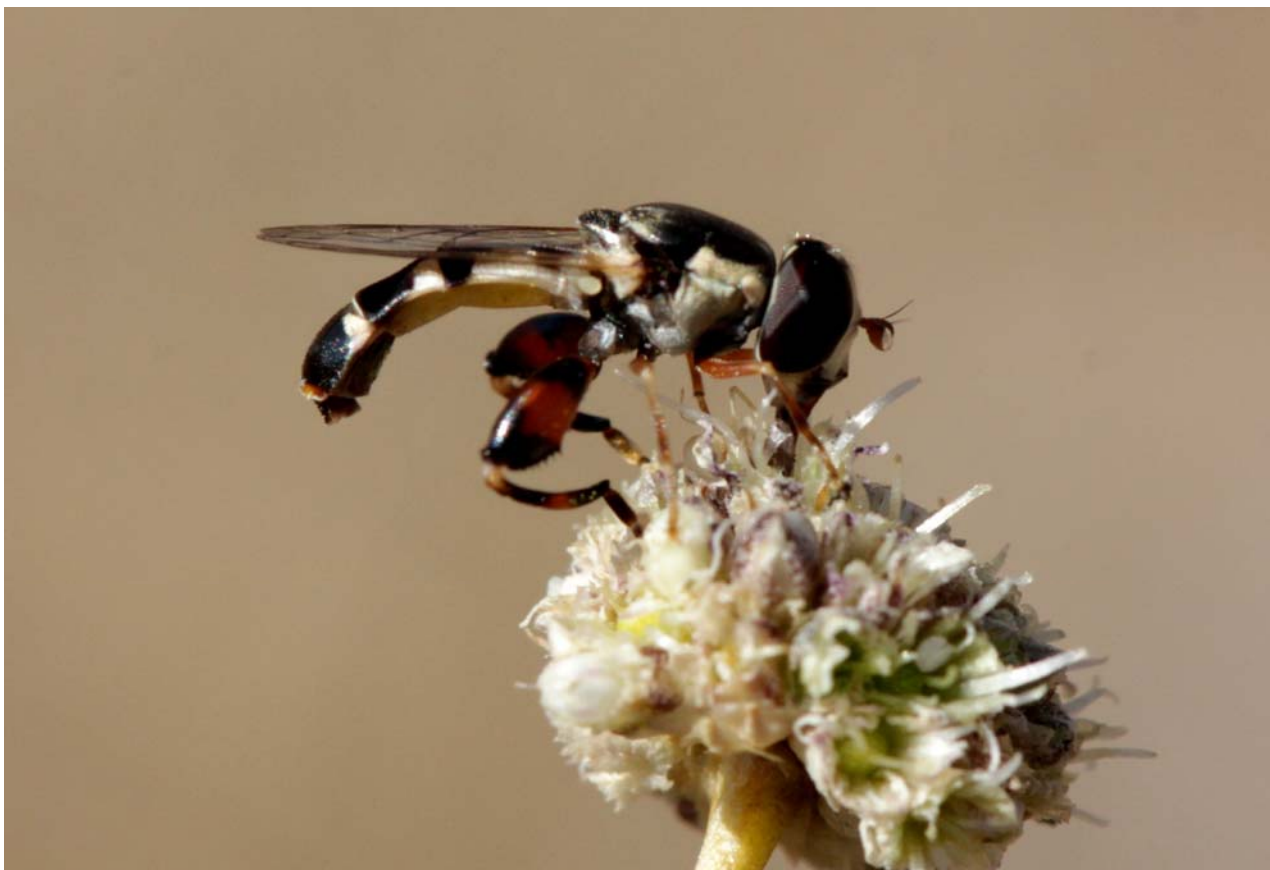
*Andricus quercustozae* is also recorded from Kayseri Province (Pınarbaşı 1590m) on 30 August 2013, and also *Andricus quercuscalicis* (Burgsdorf, 1783), *Andricus kollari* (Hartig, 1843), *Cynips quercus* (Fourcroy, 1785), *Cynips quercusfolii*, *Biorhiza pallida* (Olivier, 1791) (**Fig.44**) (all new to Kayseri Province).

<sup>7</sup> *Gymnosporangium* is a plant pathogen, a fungus in the family *Pucciniaceae*. At first sight, it looks like a kind of wasp gall to some degree.





**Fig. 34** - *Syritta pipiens* (Syrphidae). Kırşehir Prov., Mucur W of Obruk 30 8 2013, M. Kemal (Cesa)



**Fig. 35** - *Syritta pipiens* (Syrphidae). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)



**Fig. 36** - *Systoechus* sp. (*Bombyliidae*) (in copula). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)



**Fig. 37** - *Geron* sp. (*Bombyliidae*) during feeding. Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)

***Ichneumonidae***

Material: 1♀ Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.

***Braconidae* (Fig.45)**

Material: 1♀ Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M.Kemal leg.

***Chrysididae***

Two specimens of two species were captured.

Material: 2 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.

***Scoliidae***

Material: 1 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.

***Crabronidae***

Twelve specimens of at least ten species were captured mostly on *Salsola*.

Material: 12 ex Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

***Philanthus triangulum* (Fabricius,1775)**

Material studied: 1♀ on *Salix* Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.

***Pompilidae***

Material: 1 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M.Kemal leg.

***Vespidae***

Captured 3 specimens at Kuruca Pass (Bingöl Prov.) belonging to 2 eumenid species. Separately, two specimens of one eumenid species at Gürün Kaynarca (Sivas Prov.), and one eumenid specimen at Buğlan Pass (Bingöl Prov.) .

Material: 3 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M.Kemal leg.; 2 ex Turkey, Sivas Province, Gürün, 2km NW Kaynarca 1720m 30 August 2013 M Kemal leg.; 1 ex Turkey, Bingöl Prov., Solhan, Buğlan Pass 1640m 31 August, 2013, M.Kemal leg.

***Megachilidae***

Captured 3 specimens belonging to 3 species [not identified yet].

Material: 3 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M.Kemal leg.

***Apidae***

*Bombus* sp.

Material: 1 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.





**Fig. 38** - *Gymnosporangium* (Pucciniaceae), a plant pathogen on *Crataegus*. Bingöl Prov., Kuruca Pass 1700m 22 8 2013, M. Kemal (Cesa)



**Fig. 39** - *Andricus moreae* (Cynipidae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013, M. Kemal (Cesa)





**Fig. 40** - *Andricus quercustozae* (Cynipidae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013, M. Kemal (Cesa)



**Fig. 41** - *Andricus seckendorffi* (Wachtl, 1879) on acorn cups of *Quercus*. Bingöl Prov., Kuruca Pass 1700m 22 8 2013, M. Kemal (Cesa)





**Fig. 42** - *Cynips quercusfolii* (Cynipidae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013, M. Kemal (Cesa)



**Fig. 43** - *Cynips quercusfolii* (Cynipidae). Bingöl Prov., Kuruca Pass 1700m 22 8 2013, M. Kemal (Cesa)





**Fig. 44** - *Biorhiza pallida* (Cynipidae) on *Quercus*. Bingöl Prov., Kuruca Pass 1700m 22 8 2013, M. Kemal (Cesa)



**Fig. 45** - A group of braconid wasp (*Hymenoptera*). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)

***Coleoptera******Coccinellidae******Hyperaspis quadrimaculata* Redtenbacher, 1843 (Fig.46)**

A very small-sized coccinellid species. Widely distributed in Turkey, but this record is new to Sivas Province.

Material studied: 1 ♀ Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal & A. Koçak leg.

***Coccinula quatuordecimpustulata* (Linnaeus, 1758)**

This small sized species is widely distributed in Turkey; however, it is recorded in Kırşehir Province, Mucur, W of Obruk village (1140m) on 30 August 2013, for the first time. Besides, 2 specimens was captured at Ziyaret Pass (Sivas Province).

Material studied: 1 ex Turkey, Kırşehir Prov. Mucur, W of Obruk village 1140m, 30 August 2013; 2 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.

New to Kırşehir and Sivas Provinces.

***Chrysomelidae******Clytra atraphaxidis* (Pallas, 1773) (Fig.47)**

Material: 1 ex Turkey, Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013 M. Kemal leg.

***Labidostomis* sp. (Fig.48)**

In July 2013, authors recorded a *Labidostomis* specimen from Kuruca Pass. Its species hasnot been identified yet. However, the genus *Labidostomis* hasnot been reported in the province Bingöl so far.

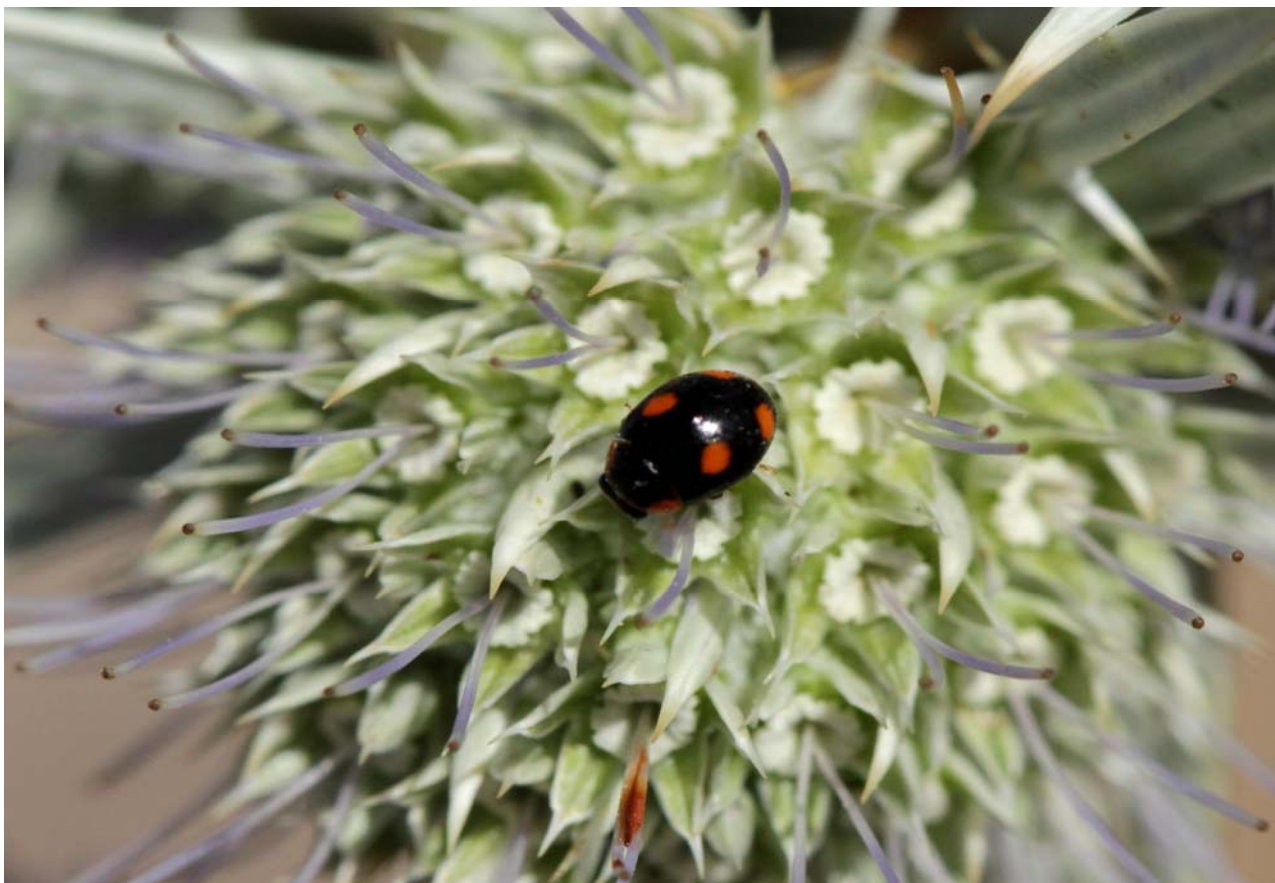
***Cerambycidae******Chlorophorus varius* (Müller, 1766) (Fig.49)**

Material: 1 ex Turkey, on *Eryngium* flower. Bingöl Prov., Kuruca Pass 1700m 28 7 2010, M.Kemal (Cesa)

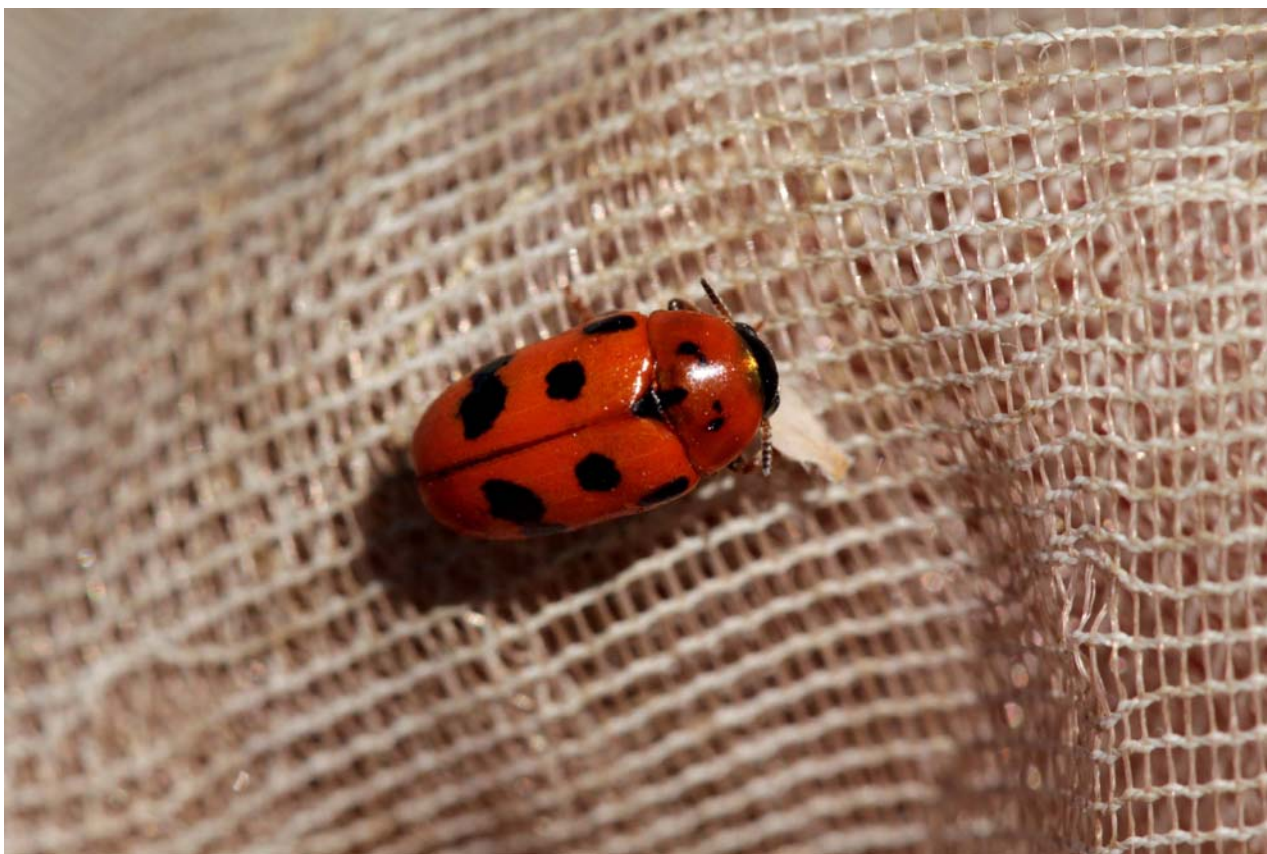
***Curculionidae***

Material: 1 ex Turkey, Bingöl Prov., Kuruca Pass 1700m 22 8 2013 M. Kemal leg.



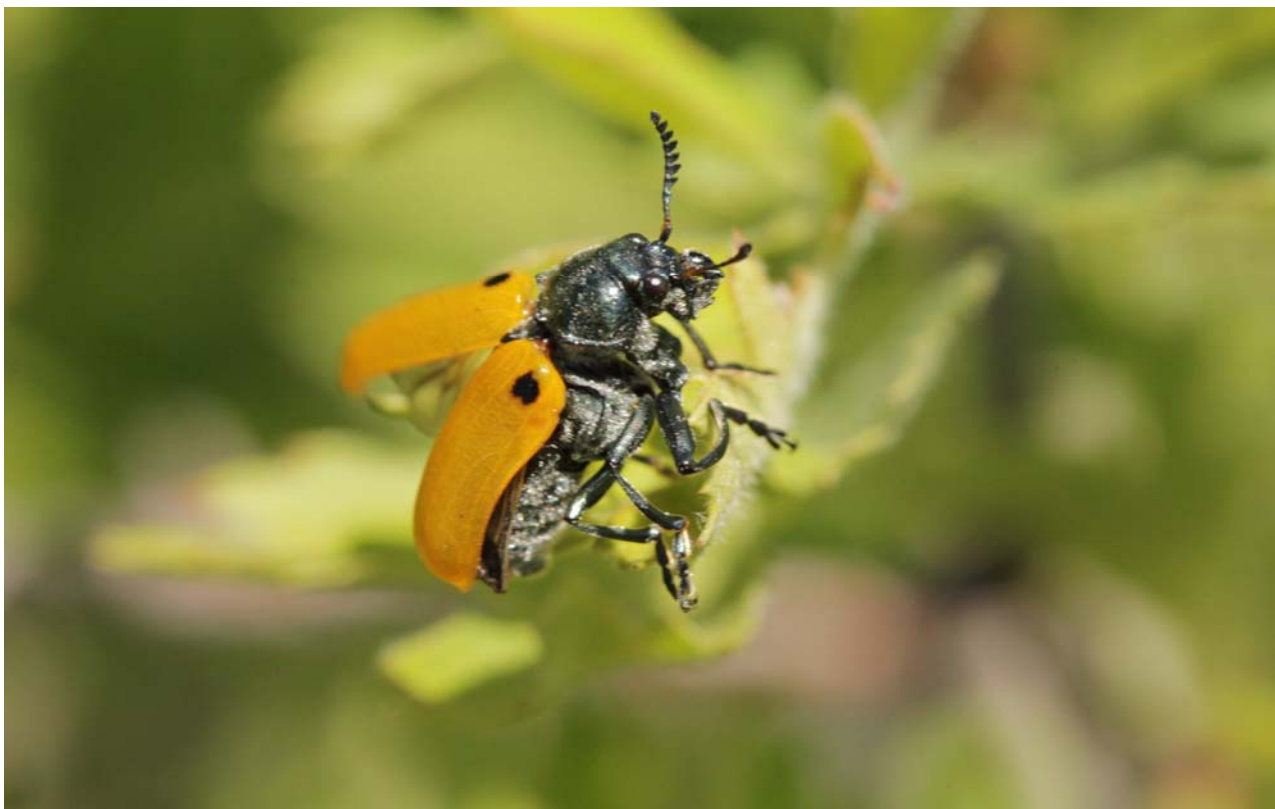


**Fig. 46** - A female of *Hyperaspis quadrimaculata* (Coccinellidae) on *Eryngium* flower. Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)

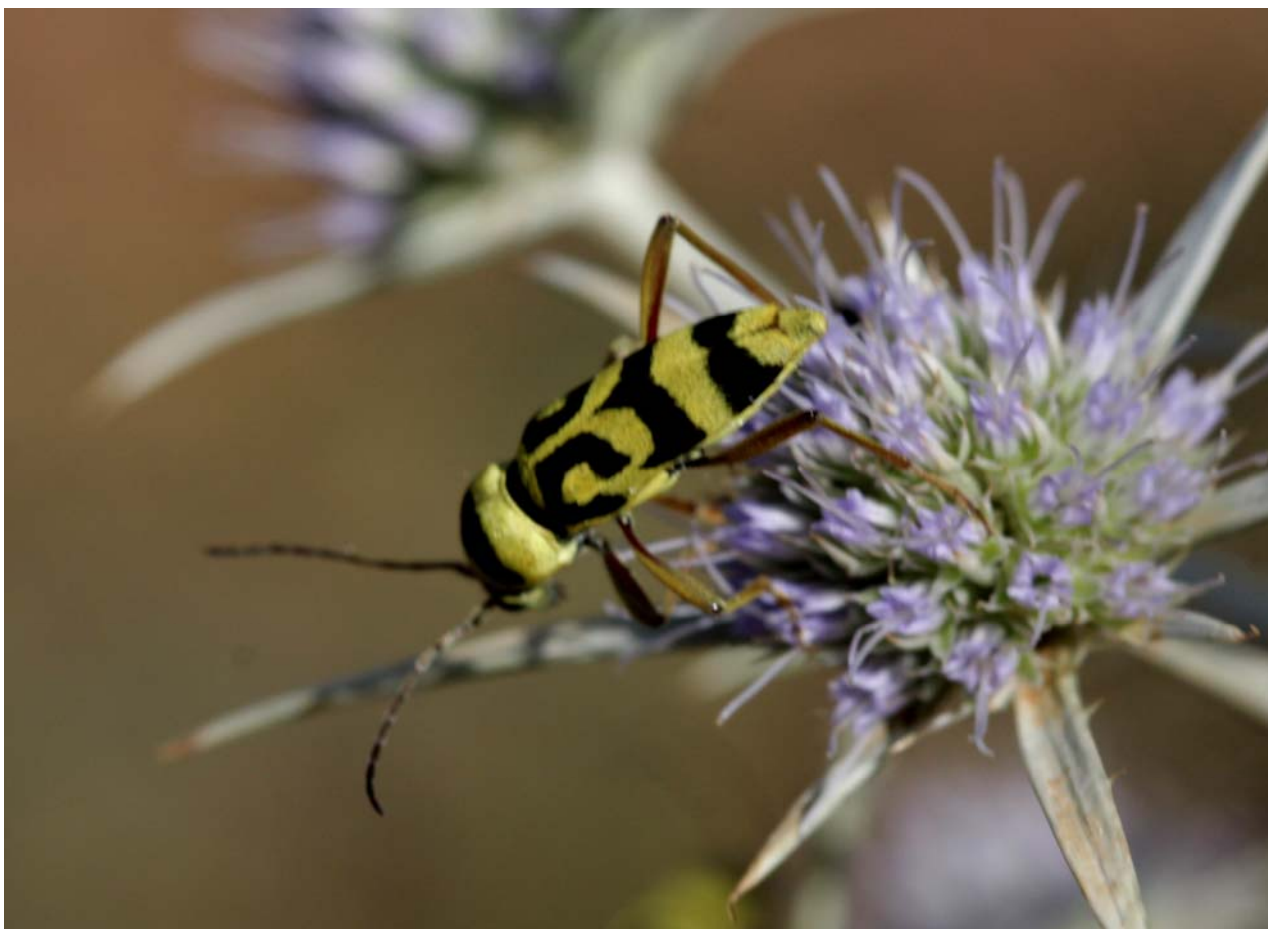


**Fig. 47** - *Clytra atraphaxidis* (Chrysomelidae). Sivas Prov., Gürün, Ziyaret Pass 1900m 23 8 2013, M. Kemal (Cesa)





**Fig. 48** - *Labidostomis* sp. (*Chrysomelidae*). Bingöl Prov., Kuruca Pass 1700m 21 7 2013, M.Kemal (Cesa)



**Fig. 49** - *Chlorophorus varius* (*Cerambycidae*) on *Eryngium* flower. Bingöl Prov., Kuruca Pass 1700m 28 7 2010, M.Kemal (Cesa)

## Acknowledgement

We sincerely thank to Dr. Ruhsar Ofluoğlu and her team (**Fig.50**) in the Pulmonary Division of Lokman Hekim Hospital (Ankara, Sincan), for their excellent medical care.

For his kind collaboration, we thank also to Mr. Kesran Akin (PhD student) (Bitlis Eren University, Turkey).



**Fig. 50** - Authors together with the Pulmonary Division of the hospital in Ankara

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<http://zoobank.org/urn:lsid:zoobank.org:pub:429907E5-CB6A-4A91-895F-F1532E56290D>

## Synonymous List of the Lepidoptera of Western Azerbaidjan Province (Iran)

Muhabbet Kemal Ahmet Ömer Koçak

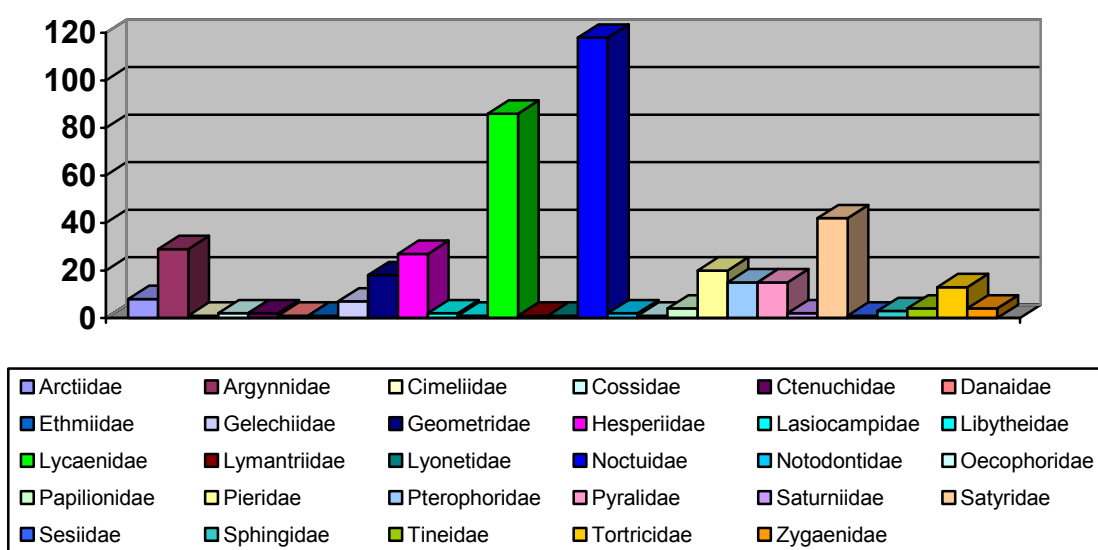
**Abstract:** Synonymous List of the Lepidoptera of Western Azerbaidjan Province (Iran). *Cesa News* 93: 38-52, 1 graph.

The paper deals with the list of the Lepidoptera of Western Azerbaidjan Province of Iran. Totally 432 species in 29 families known in the province are listed alphabetically, together with their synonyms.

**Key words:** *Arctiidae, Argynniidae, Cimbidae, Cossidae, Ctenuchidae, Danaidae, Ethmiidae, Gelechiidae, Geometridae, Hesperidae, Lasiocampidae, Libytheidae, Lycaenidae, Lymantriidae, Lyonetidae, Noctuidae, Notodontidae, Oecophoridae, Papilionidae, Pieridae, Pterophoridae, Pyralidae, Saturniidae, Satyridae, Sesiidae, Sphingidae, Tineidae, Tortricidae, Zygaenidae, Lepidoptera, fauna, Western Azerbaidjan, Iran*

Within the frame of the signed protocol of a scientific collaboration between the Yüzüncü Yıl University (Turkey) and the University of Urmia (Iran), the determination of the western Azerbaidjan Lepidoptera fauna is currently planned for the coming three years. The following list is based upon the info-system of the Cesa<sup>8</sup>, hitherto known species in western Azerbaidjan. The province is one of the richest region in the Lepidoptera of the Middle East. However, the expected specific number in the province, within this limited time period, is more than 1000. The butterflies have been studied better than the nocturnal moths. The largest family *Noctuidae* is represented in the province by 118 species for the time being (**Graph 1**).

In the following list, totally 432 species of 29 lepidopteran families of western Azerbaidjan are given alphabetically together with their synonyms. Bibliography will be given in the "Synonymous List of the *Lepidoptera* of Iran" (under preparation).



**Graph 1-** Current specific status of the families of the *Lepidoptera* in the Western Azerbaidjan.

<sup>8</sup> Info-system of the Cesa: <http://www.cesa-tr.org/Infos.htm>



## List of the Species

Below, 29 families and 432 species are listed alphabetically. Synonyms are arranged chronologically. # denotes nomenclaturally unavailable name. The genera and the subspecies are not included here.

### Arctiidae (8 species)

1. **Andala semiramis (Staudinger,1892)** (Arctiidae) Synonym(s): *semiramis* Staudinger,1892; *brandti* Daniel,1949
2. **Arctia (Epicallia) marchandi De Freina,1983** (Arctiidae) Synonym(s): *marchandi* De Freina,1983.
3. **Axiopoena karelini Ménétériés,1863** (Arctiidae) Synonym(s): *karelini* Ménétériés,1863; *transcaucasia* Sheljuzhko,1926; *manissadjiani* O.Bang-Haas,1927.
4. **Callimorpha dominula (Linnaeus,1758)** (Arctiidae) Synonym(s): *dominula* Linnaeus,1758; *insubrica* Wackerzapp,1890; *rhodanica* Kettlewell,1943.
5. **Cymbalophora rivularis (Ménétériés,1832)** (Arctiidae) Synonym(s): *rivularis* Ménétériés,1832; *dannehli* Dannehl,1929.
6. **Euplagia splendidior (Tams,1922)** (Arctiidae) Synonym(s): *splendidior* Tams,1922; *tkatshukovi* Sheljuzhko,1935.
7. **Phragmatobia fuliginosa (Linnaeus,1758)** (Arctiidae) Synonym(s): *fuliginosa* Linnaeus,1758; *fervida* Staudinger,1871 nec Walk.,1855; *lurida* Rothschild,1910; *monticola* Daniel,1970 nec Reiss.,1934
8. **Utetheisa (s.str.) pulchella (Linnaeus,1758)** (Arctiidae) Synonym(s): *pulchella* Linnaeus,1758; *pulchra* [Denis & Schiffermüller],1775; *thyter* Butler,1877; *shyama* Bhattacharjee & Gupta,1969; *menoni* Bhattacharjee & Gupta,1969.

### Argynnidae (=Nymphalidae) (29 species)

9. **Aglais urticae (Linnaeus,1758)** (Argynnidae) Synonym(s): *urticae* Linnaeus,1758; *opima* Verity,1919; *variegata* Querci,1932; *strandii* Verity,1936.
10. **Argynnis (Fabriciana) adippe (Rottemburg,1775)** (Argynnidae) Synonym(s): *cydippe* Linnaeus,1761 (rejected); *berecynthia* Poda,1761 (rejected); *adippe* Rottemburg,1775; *phryxa* Bergsträßer,1780; *margaritacea* Retzius,1783; *syrix* Borkhausen,1788; *aspasia* Borkhausen,1788; *liriope* Borkhausen,1788; *baiuvarica* Spuler,1901, etc.
11. **Argynnis (Fabriciana) niobe (Linnaeus,1758)** (Argynnidae) Synonym(s): *niobe* Linnaeus,1758.
12. **Argynnis (Pandoriana) pandora ([Denis & Schiffermüller],1775)** (Argynnidae) Synonym(s): *pandora* [Denis & Schiffermüller],1775; *maja* Cramer,1775 nec Fabricius,1775; *cynara* Fabricius,1777; *cyrnea* Schwerda,1926; *transcaucasica* Moucha,1967; *deserticola* Gross & Ebert,1975.
13. **Argynnis (Speyeria) aglaja (Linnaeus,1758)** (Argynnidae) Synonym(s): *aglaja* Linnaeus,1758; *charlotta* Haworth,1802; *emilia* Acerbi,1802 nec Cr.,1779; *caroletta* Jermyn,1827; *locuples* Verity,1919 nec Butler,1879; *emilocuples* Verity,1919; *locupletata* Verity,1922; *montesignum* Sagarra,1926.
14. **Argynnis (Speyeria) alexandra Ménétériés,1832** (Argynnidae) Synonym(s): *alexandra* Ménétériés,1832
15. **Argynnis (s.str.) paphia (Linnaeus,1758)** (Argynnidae) Synonym(s): *paphia* Linnaeus,1758; *valesina* Esper,[1798]; *magnata* Verity,1919; *revelata* Verity,1934; *magnifica* Verity,1919; *magnificamagnata* Verity,1950.
16. **Boloria (Clossiana) euphrosyne (Linnaeus,1758)** (Argynnidae) Synonym(s): *euphrosyne* Linnaeus,1758; *argenticollis* Retzius,1783; *finjal* Herbst,1800; *densoi* Fruhstorfer,1909; *apennina* Fruhstorfer,1916; *cynosoma* Fruhstorfer,1916; *nestonclara* Verity,1932; *eminens* Verity,1932; *varianana* Verity,1932; *austremiens* Verity,1950, etc.
17. **Brenthis daphne (Bergsträsser,1780)** (Argynnidae) Synonym(s): *daphne* Bergsträsser,1780; *chloris* Esper,1778 nec Fabricius,1775; *epidaphne* Fruhstorfer,1907; *nikator* Fruhstorfer,1909; *tenuitermaculosa* Verity,1922; *syriaca* Belter,1935; *anatolica* Belter,1935.
18. **Brenthis hecate ([Denis & Schiffermüller],1775)** (Argynnidae) Synonym(s): *hecate* [Denis & Schiffermüller],1775; *harmothoe* Fruhstorfer,1917; *florida* Verity,1919; *stricta* Verity,1933.
19. **Brenthis mofidii Wyatt,1968** (Argynnidae) Synonym(s): *mofidii* Wyatt,1968
20. **Euphydryas (Eurodryas) aurinia (Rottemburg,1775)** (Argynnidae) Synonym(s): *aurinia* Rottemburg,1775; *artemis* [Denis & Schiffermüller],1775; *lye* Bergsträßer,[1779]; *koloswarensis* Piller & Mitterpacher,1783; *scotica* Robson,1880; *signifera* Kane,1893; *anglicana* Fruhstorfer,1917; *acedia* Fruhstorfer,1917; *pychanpar* Lastukhin,2007
21. **Issoria lathonia (Linnaeus,1758)** (Argynnidae) Synonym(s): *lathonia* Linnaeus,1758; *saturata* Röber,1897; *hungarica* Aigner-Abafi,1906; *florens* Verity,1916; *emiflorens* Verity,1919; *attenuata* Sagarra,1926; *nigroprivata* Verity,1933.
22. **Limenitis (Azuritis) reducta Staudinger,1901** (Argynnidae) Synonym(s): *reducta* Staudinger,1901.
23. **Melitaea (Cinclidia) (phoebe) phoebe (Goeze,1779)** (Argynnidae) Synonym(s): *#phoebe* [Denis & Schiffermüller],1775; *phoebe* Goeze,1779; *paedotropos* Bergsträßer,[1780]; *tremulae* Piller & Mitterpacher,1783.
24. **Melitaea (Cinclidia) collina Lederer,1861** (Argynnidae) Synonym(s): *collina* Lederer,1861
25. **Melitaea (Didymaeformis) fascelis (Fabricius,1787)** (Argynnidae) Synonym(s): *#trivia* Denis & Schiffermüller,1775; *iphigenia* Esper,1782 (praeoc.); *#fascelis* Esper,1783; *fascelis* Fabricius,1787; *cleo* Latreille,1803

- 26. Melitaea (Didymaeformis) interrupta Kolenati, 1846** (Argynnidae) Synonym(s): *interrupta* Kolenati, 1846; *#transcaucasica* Turati, 1919; *caucasica* Verity, 1922; *venosata* Niesiolowsky, 1937; *distinctissima* Bryk, 1940; *musatscherii* Alberti, 1969; *itkolensis* Alberti, 1969.
- 27. Melitaea (Didymaeformis) perseia Kollar, [1849]** (Argynnidae) Synonym(s): *perseia* Kollar, [1849]; *caucasica* Staudinger, 1861; *magnacasta* Verity, 1929; *araratica* Verity, 1929; *sargon* Hemming, 1932; *tauricus* Belter, 1934; *caucasicola* Bryk, 1940; *hafiz* Higgins, 1941; *gina* Higgins, 1941; *darius* Gross & Ebert, 1975; *pfeifferi* Gross & Ebert, 1975 (*praeocc.*); *wernickei* Gross & Ebert, 1975; *elbursicola* Gross & Ebert, 1975; *safawides* Gross & Ebert, 1975.
- 28. Melitaea (s.str.) arduinna (Fabricius, 1787)** (Argynnidae) Synonym(s): *arduinna* Fabricius, 1787; *rhodopensis* Freyer, [1836]; *uralensis* Eversmann, 1844.
- 29. Melitaea (s.str.) cinxia (Linnaeus, 1758)** (Argynnidae) Synonym(s): *cinxia* Linnaeus, 1758; *abacus* Retzius, 1783; *fulla* Quensel, 1791.
- 30. Neptis (s.str.) rivularis (Scopoli, 1763)** (Argynnidae) Synonym(s): *rivularis* Scopoli, 1763; *lucilla* Denis & Schiffermüller, 1775; *coenobita* Cramer, 1780; *#tolunay* Koçak & Kemal, 2006.
- 31. Nymphalis antiopa (Linnaeus, 1758)** (Argynnidae) Synonym(s): *antiopa* Linnaeus, 1758; *pompador* Pollich, 1783; *morio* Retzius, 1783; *borealis* Wnukowsky, 1927.
- 32. Nymphalis polychloros (Linnaeus, 1758)** (Argynnidae) Synonym(s): *polychloros* Linnaeus, 1758; *testudo* Esper, 1781; *pyrrhormelaena* Hübner, 1824; *pyromelas* Freyer, 1834; *fervida* Standfuss, 1896.
- 33. Nymphalis xanthomelas (Esper, [1781])** (Argynnidae) Synonym(s): *#xanthomelas* [Denis & Schiffermüller], 1775; *xanthomelas* Esper, [1781]
- 34. Polygonia (Comma) c-album (Linnaeus, 1758)** (Argynnidae) Synonym(s): *c-album* Linnaeus, 1758; *g-album* Fourcroy, 1785.
- 35. Polygonia (Comma) egea (Cramer, [1775])** (Argynnidae) Synonym(s): *egea* Cramer, [1775] (*junior* homonym); *vaualbum* Esper, 1780; *l-album* Esper, 1789; *triangulum* Fabricius, 1793; *autumnalis* Stefanelli, 1873; *#balucha* Evans, 1932; *#pallida* Evans, 1932.
- 36. Vanessa (Cynthia) cardui (Linnaeus, 1758)** (Argynnidae) Synonym(s): *cardui* Linnaeus, 1758; *carduelis* Cramer, 1775; *elymi* Rambur, 1829; *kershawi* McCoy, 1868; *pallida* Schøyen, 1881; *japonica* Stichel, 1908; *universa* Verity, 1919; *takesakiana* Kato, 1925; *jacksoni* Clark, 1927.
- 37. Vanessa (s.str.) atalanta (Linnaeus, 1758)** (Argynnidae) Synonym(s): *atalanta* Linnaeus, 1758; *amiralis* Retzius, 1783; *#klemensiewiczzi* Schille, 1896; *#klime* Fischer, 1896; *italica* Stichel, 1900.

**Cimeliidae** (1 species)

- 38. Axia (Epicimelia) theresiae (Korb, 1900)** (Cimeliidae) Synonym(s): *theresiae* Korb, 1900

**Cossidae** (2 species)

- 39. Dyspessa ariadne Yakovlev, 2008** (Cossidae) Synonym(s): *ariadne* Yakovlev, 2008
- 40. Dyspessa zurvan Yakovlev, 2008** (Cossidae) Synonym(s): *zurvan* Yakovlev, 2008

**Ctenuchidae** (2 species)

- 41. Amata aserbeidjana (De Freina, 1982)** (Ctenuchidae) Synonym(s): *aserbeidjana* De Freina, 1982
- 42. Amata wiltshirei Bytinski-Salz, 1939** (Ctenuchidae) Synonym(s): *wiltshirei* Bytinski-Salz, 1939

**Danaidae** (1 species)

- 43. Danaus (Anosia) chrysippus (Linnaeus, 1758)** (Danaidae) Synonym(s): *chrysippus* Linnaeus, 1758; *aegyptius* Schreber, 1759

**Ethmiidae** (1 species)

- 44. Ethmia similis Sattler, 1967** (Ethmiidae) Synonym(s): *similis* Sattler, 1967

**Gelechiidae** (7 species)

- 45. Bryotropha horribilis Karsholt & Rutten, 2005** (Gelechiidae) Synonym(s): *horribilis* Karsholt & Rutten, 2005
- 46. Ephysteris (Microcraspedus) deserticolella (Staudinger, 1871)** (Gelechiidae) Synonym(s): *deserticolella* Staudinger, 1871.
- 47. Scrobipalpa (Ilseopsis) grossa Povolny, 1966** (Gelechiidae) Synonym(s): *grossa* Povolny, 1966
- 48. Scrobipalpa (s.str.) albostrata Povolny, 1977** (Gelechiidae) Synonym(s): *albostrata* Povolny, 1977
- 49. Scrobipalpa (s.str.) heretica Povolny, 1973** (Gelechiidae) Synonym(s): *heretica* Povolny, 1973
- 50. Scrobipalpa (s.str.) nana Povolny, 1973** (Gelechiidae) Synonym(s): *nana* Povolny, 1973
- 51. Scrobipalpula psilella (Herrich-Schäffer, [1854])** (Gelechiidae) Synonym(s): *psilella* Herrich-Schäffer, [1854]; *cacuminum* Frey, 1870.

**Geometridae** (18 species)

- 52. Aplocera plagiata (Linnaeus,1758)** (Geometridae) **Synonym(s):** *plagiata* Linnaeus,1758; *pallidata* Staudinger,1879.
- 53. Campptogramma bilineatum (Linnaeus,1758)** (Geometridae) **Synonym(s):** *bilineata* Linnaeus,1758; *brocatella* Fourcroy,1785; *dumetata* Schrank,1802; *bilinearis* Boisduval,1840; *musauria* Freyer,1846; *testaceolata* Staudinger,1871
- 54. Chlorissa viridata (Linnaeus,1758)** (Geometridae) **Synonym(s):** *viridata* Linnaeus,1758; *volutata* Fabricius,1775; *sirene* Villers,1789
- 55. Eupithecia extensaria (Freyer,1844)** (Geometridae) **Synonym(s):** *extensaria* Freyer,1844; *prolongata* Lienig,1846; *sydyi* Staudinger,1885; *leuca* Dietze,1910; *prolongata* Dietze,1910 nec Lien.,1846; *occidua* L.B.Prout,1914
- 56. Eupithecia silenicolata Mabilite,1867** (Geometridae) **Synonym(s):** *silenicolata* Mabilite,1867
- 57. Eupithecia simplicata Haworth,[1809]** (Geometridae) **Synonym(s):** *simplicata* Haworth,[1809]; *subnotata* Hübner,[1813]; *subnotaria* Boisduval,1840; *subnotataria* Herrich-Schäffer,1848.
- 58. Eupithecia subumbrata ([Denis & Schiffermüller],1775)** (Geometridae) **Synonym(s):** *subumbrata* [Denis & Schiffermüller],1775; *scabiosata* Borkhausen,1794; *piperata* Stephens,1831, *subumbraria* Boisduval,1840; *obrutaria* Doubleday,1849; *majoraria* De La Harpe,1855.
- 59. Idaea ossiculata (Lederer,1871)** (Geometridae) **Synonym(s):** *ossiculata* Lederer,1871
- 60. Lithostege infusata Eversmann,1837** (Geometridae) **Synonym(s):** *infusata* Eversmann,1837
- 61. Lithostege wizenmanni Standfuss,1892** (Geometridae) **Synonym(s):** *wizenmanni* Standfuss,1892
- 62. Lycia graecaria (Staudinger,1861)** (Geometridae) **Synonym(s):** *graecaria* Staudinger,1861
- 63. Ochodontia adustaria Fischer de Waldheim,1840** (Geometridae) **Synonym(s):** *adustaria* Fischer de Waldheim,1840; *sareptanaria* Freyer,1841; *#sareptaria* Eversmann,1844
- 64. Rhodostrophia sieversi (Christoph,1882)** (Geometridae) **Synonym(s):** *sieversi* Christoph,1882
- 65. Scopula immorata (Linnaeus,1758)** (Geometridae) **Synonym(s):** *immorata* Linnaeus,1758; *contaminata* Scopoli,1763; *graminata* Hufnagel,1767; *festucaria* Brahm,1791 nec Hbn.,1790; *fuscata* Fabricius,1794 nec Hfn.,1767; *immoraria* Hübner,[1799]; *serenata* Turati,1905; *myrtillata* Dadd,1911
- 66. Scopula marginepunctata (Goeze,1781)** (Geometridae) **Synonym(s):** *marginepunctata* Goeze,1781; *conjugata* Borkhausen,1794; *aniculosata* Rambur,1829; *puellaria* Boisduval,1840; *mutaria* Heydenreich,1851; *promutata* Guenée,[1858]; *promutaria* Morris,1861; *apertaria* Walker,[1863]; *madoniata* Fuchs,1901; *pastoraria* De Joannis,1891
- 67. Scopula rubiginata (Hufnagel,1767)** (Geometridae) **Synonym(s):** *rubiginata* Hufnagel,1767; *rubricata* [Denis & Schiffermüller],1775; *vittata* Thunberg,1784; *domialla* Fourcroy,1785; *variata* Villers,1789; *#rubricaria* Hübner,[1799]; *subangularia* Herrich-Schäffer,1839
- 68. Tephрина murinaria ([Denis & Schiffermüller],1775)** (Geometridae) **Synonym(s):** *murinaria* [Denis & Schiffermüller],1775; *nubecularia* Villers,1789; *myosaria* Esper,[1806]; *cineraria* Duponchel,1829; *buffonaria* Millière,1855
- 69. Thetidia persica Hausmann,1996** (Geometridae) **Synonym(s):** *persica* Hausmann,1996

## Hesperiidae (27 species)

- 70. Carcharodus (Lavatheria) lavatherae (Esper,[1783])** (Hesperiidae) **Synonym(s):** *lavatherae* Esper,[1783]; *australior* Verity,1919; *pyrenaicus* Ricard,1948.
- 71. Carcharodus (Reverdinus) flocciferus (Zeller,1847)** (Hesperiidae) **Synonym(s):** *flocciferus* Zeller,1847; *altheae* Hübner,[1803] nec Esp.,[1783]; *imperator* Hemming,1934; *alchymillae* Hemming,1936; *autumnalis* Verity,1940.
- 72. Carcharodus (Reverdinus) orientalis Reverdin,1913** (Hesperiidae) **Synonym(s):** *orientalis* Reverdin,1913; *centralanatolica* Pfeiffer,1927; *#aestatis* Graves,1928; *aestatis* Verity,1928; *postorientalis* Verity,1928; *maccabaeus* Hemming,1932.
- 73. Carcharodus (s.str.) alceae (Esper,[1780])** (Hesperiidae) **Synonym(s):** *alceae* Esper,[1780]; *malvae* Hufnagel,1766 nec Linn.,1758; *malvarum* Hoffmannsegg,1804; *magnaustalis* Verity,1924; *corsicus* Picard,1948.
- 74. Eogenes alcides Herrich-Schäffer,[1852]** (Hesperiidae) **Synonym(s):** *alcides* Herrich-Schäffer,[1852]
- 75. Erynnis (Hesperopegasus) marloyi (Boisduval,[1834])** (Hesperiidae) **Synonym(s):** *marloyi* Boisduval,[1834]; *sericea* Freyer,1838; *rustan* Kollar,[1849].
- 76. Erynnis (s.str.) tages (Linnaeus,1758)** (Hesperiidae) **Synonym(s):** *tages* Linnaeus,1758; *morio* Scopoli,1763; *geryon* Rottemburg,1775; *subclarus* Verity,1921.
- 77. Hesperia comma (Linnaeus,1758)** (Hesperiidae) **Synonym(s):** *comma* Linnaeus,1758; *virgula* Retzius,1783; *alpina* Bath,1896; *galliaemeridiei* Verity,1928; *alpapennina* Verity,1928; *alpiumflava* Verity,1928; *macrocomma* Verity,1928; *superalpina* Verity,1928; *atralpina* Verity,1928.
- 78. Muschampia poggei (Lederer,1858)** (Hesperiidae) **Synonym(s):** *poggei* Lederer,1858
- 79. Muschampia proteides (F.Wagner,1929)** (Hesperiidae) **Synonym(s):** *proteides* F.Wagner,1929; *lycaonius* F.Wagner,1929; *sovietica* Sichel,1964; *lycaonius* Benjamini & Avni,2001 [misident.]; *#lycaomius* Benjamini & Avni,2001
- 80. Muschampia proto (Ochsenheimer,1808)** (Hesperiidae) **Synonym(s):** *proto* Ochsenheimer,1808
- 81. Muschampia tersa Evans,1949** (Hesperiidae) **Synonym(s):** *tersa* Evans,1949
- 82. Muschampia tessellum (Hübner,[1802])** (Hesperiidae) **Synonym(s):** *tessellum* Hübner,[1802]; *hibisci* Böber,1812; *mazzola* Ochsenheimer,1816
- 83. Ochloides venatus (Bremer & Grey,[1852])** (Hesperiidae) **Synonym(s):** *venatus* Bremer & Grey,[1852]
- 84. Pelopidas thrax (Hübner,[1821])** (Hesperiidae) **Synonym(s):** *thrax* Hübner,[1821]; *midea* Walker,1870
- 85. Pyrgus armoricanus (Oberthür,1910)** (Hesperiidae) **Synonym(s):** *armoricanus* Oberthür,1910; *petheri* Romei,1927.
- 86. Pyrgus carlinae (Rambur,[1839])** (Hesperiidae) **Synonym(s):** *carlinae* Rambur,[1839]; *olivacea* Oberthür,1910; *caecus* Turati & Verity,1911; *atrata* Verity,1925; *cottiana* Kaufman,1954.



- 87. *Pyrgus carthami* (Hübner,[1813]) (Hesperiidae) Synonym(s):** *carthami* Hübner,[1813]  
**88. *Pyrgus melotis* (Duponchel,[1834]) (Hesperiidae) Synonym(s):** *melotis* Duponchel,[1834]; *hypoleucos* Lederer,1853; *jordana* Hemming,1932.  
**89. *Pyrgus serratulae* (Rambur,[1839]) (Hesperiidae) Synonym(s):** *serratulae* Rambur,[1839]; *caecus* Freyer,1846; *occidentalis* Lucas,1910 nec Skinn.,1906; *planorum* Verity,1925; *magnagallica* Verity,1931; *plurisignata* Silbernagel,1946; *arvernensis* Picard,1948.  
**90. *Pyrgus sidae* (Esper,[1784]) (Hesperiidae) Synonym(s):** *sidae* Esper,[1784]  
**91. *Spialia* (Neospialia) *orbifer* (Hübner,[1823]) (Hesperiidae) Synonym(s):** *orbifer* Hübner,[1823]; *tesselloides* Herrich-Schäffer,[1845].  
**92. *Spialia* (s.str.) *osthelderi* (Pfeiffer,1932) (Hesperiidae) Synonym(s):** *osthelderi* Pfeiffer,1932  
**93. *Spialia* (s.str.) *phlomidis* (Herrich-Schäffer,[1845]) (Hesperiidae) Synonym(s):** *phlomidis* Herrich-Schäffer,[1845]; *eupator* Hemming,1932; *kiki* Higgins,1974.  
**94. *Thymelicus acteon* (Rottemburg,1775) (Hesperiidae) Synonym(s):** *acteon* Rottemburg,1775; *heydeni* Plötz,1884; *clara-obsoleta* Tutt,1920; *phoenix* Graves,1925; *aurescens* Verity,1948.  
**95. *Thymelicus lineolus* (Ochsenheimer,1808) (Hesperiidae) Synonym(s):** *lineolus* Ochsenheimer,1808; *virgula* Hübner,1813 nec Retz.,1783; *ludoviciae* Mabille,1883; *pallida* Tutt,1896; *clara* Tutt,1905; *hemmingi* Romei,1927; *melissus* Zerny,1932; *fornax* Hemming,1934  
**96. *Thymelicus sylvestris* (Poda,1761) (Hesperiidae) Synonym(s):** *sylvestris* Poda,1761; *flava* Brünlich,1763; *linea* Müller,1764; *thauomas* Hufnagel,1766; *divaricatus* Fourcroy,1785; *venula* Hübner,[1813]; *obscura* Verity,1905

### Lasiocampidae (2 species)

- 97. *Phyllodesma* (s.str.) *glasunowi* Groum-Grshimailo,1895 (Lasiocampidae) Synonym(s):** *glasunowi* Groum-Grshimailo,1895  
**98. *Trichiura* (s.str.) *sapor* Wiltshire,1946 (Lasiocampidae) Synonym(s):** *sapor* Wiltshire,1946

### Libytheidae (1 species)

- 99. *Libythea* (s.str.) *celtis* (Laicharting,1782) (Libytheidae) Synonym(s):** *celtis* Laicharting,1782

### Lycaenidae (86 species)

- 100. *Callophrys danchenkoi* Zhdanko,1998 (Lycaenidae) Synonym(s):** *danchenkoi* Zhdanko,1998  
**101. *Celastrina argiolus* (Linnaeus,1758) (Lycaenidae) Synonym(s):** *argiolus* Linnaeus,1758; *cleobis* Sulzer,1776; *thersanon* Bergsträßer,1779; *argyphontes* Bergsträßer,1779; *argalus* Bergsträßer,1779; *marginatus* Retzius,1783; *acis* Fabricius,1787 nec Dru.,[1773]; *#parvipuncta* Fuchs,1880; *calidogenita* Verity,1919; *britannia* Verity,1919.  
**102. *Chilades* (Freyeria) *trochylus* (Freyer,[1843]) (Lycaenidae) Synonym(s):** *trochylus* Freyer,[1843]; *#trochilus* Herrich-Schäffer,[1845]; *parva* Murray,1874; *persa* Bytinski-Salz & Brandt,1937; *#supraradiata* Wagner,1931  
**103. *Chilades* (Lachides) *galba* (Lederer,1855) (Lycaenidae) Synonym(s):** *galba* Lederer,1855  
**104. *Cigaritis epargyros* (Eversmann,1854) (Lycaenidae) Synonym(s):** *epargyros* Eversmann,1854  
**105. *Cupido* (s.str.) *minimus* (Fuessly,1775) (Lycaenidae) Synonym(s):** *minimus* Fuessly,1775; *alsus* [Denis & Schiffermüller,1775; *pseudolus* Bersträßer,[1779]; *puer* Schrank,1801.  
**106. *Cupido* (s.str.) *osiris* (Meigen,[1829]) (Lycaenidae) Synonym(s):** *osiris* Meigen,[1829]; *saportae* Duponchel,1832; *violacea* Verity,1911; *sebrus* Boisduval,[1833].  
**107. *Glaucopsyche* (s.str.) *aeruginosa* (Staudinger,1881) (Lycaenidae) Synonym(s):** *aeruginosa* Staudinger,1881; *subalexis* Obratsov,1936.  
**108. *Glaucopsyche* (s.str.) *alexis* (Poda,1761) (Lycaenidae) Synonym(s):** *alexis* Poda,1761; *damaetas* [Denis & Schiffermüller,1775; *#sublugens* Strand,1909; *#insulicola* Turati & Fiori,1930; *mironi* Coutsis,1976.  
**109. *Lampides boeticus* (Linnaeus,1767) (Lycaenidae) Synonym(s):** *boeticus* Linnaeus,1767; *damoetes* Fabricius,1775; *coluteae* Fuessly,1775; *pisorum* Fourcroy,1785; *boedicus* Borkhausen,1788; *#baeticus* Latreille,1809; *armeniensis* Gerhard,1886; *bagus* Distant,1886  
**110. *Lycaena* (Alciphronia) *alciphron* (Rottemburg,1775) (Lycaenidae) Synonym(s):** *alciphron* Rottemburg,1775; *lampetie* [Denis & Schiffermüller,1775; *hiere* Fabricius,1787.  
**111. *Lycaena* (Heodes) *virgaureae* (Linnaeus,1758) (Lycaenidae) Synonym(s):** *virgaureae* Linnaeus,1758; *armeniaca* A.Bang-Haas,1906; *chrysorhoas* Fruhstorfer,1917; *balcanicola* Graves,1928.  
**112. *Lycaena* (Loweia) *tityrus* (Poda,1761) (Lycaenidae) Synonym(s):** *tityrus* Poda,1761; *acirion* [Brünlich],1763; *orientalis* Staudinger,1881; *argentifex* Balint,1990.  
**113. *Lycaena* (Margelycaena) *euphratica* (Eckweiler,1989) (Lycaenidae) Synonym(s):** *euphratica* Eckweiler,1989  
**114. *Lycaena* (Palaeochrysophanus) *candens* (Herrich-Schäffer,[1845]) (Lycaenidae) Synonym(s):** *candens* Herrich-Schäffer,[1845]  
**115. *Lycaena* (Phoenicurusia) *phoenicurus* (Lederer,1870) (Lycaenidae) Synonym(s):** *phoenicurus* Lederer,1870; *transcaucasica* Miller,1923  
**116. *Lycaena* (Thersamonia) *asabinus* (Gerhard,[1850]) (Lycaenidae) Synonym(s):** *#helius* Herrich-Schäffer,[1851]; *asabinus* Herrich-Schäffer,[1852].  
**117. *Lycaena* (Thersamonia) *kefersteinii* (Gerhard,[1850]) (Lycaenidae) Synonym(s):** *kefersteinii* Gerhard,[1850]; *phaeton* Freyer,[1850]; *#ochimus* Herrich-Schäffer,[1851]; *ochimus* Herrich-Schäffer,[1852].

- 118. *Lycaena (Thersamonia) kurdistanicus* (Riley,1921)** (Lycaenidae) Synonym(s): *kurdistanica* Riley,1921
- 119. *Lycaena (Thersamonia) lampon* (Lederer,1870)** (Lycaenidae) Synonym(s): *lampon* Lederer,1870
- 120. *Lycaena (Thersamonia) thetis* (Klug,1834)** (Lycaenidae) Synonym(s): *thetis* Klug,1834.
- 121. *Lycaena (s.str.) phlaeas* (Linnaeus,1761)** (Lycaenidae) Synonym(s): *phlaeas* Linnaeus,1761; *virgaurea* Fourcroy,1785 nec Linn.,1758; *eleus* Fabricius,1798; *aestivus* Zeller,1850; *schmidtii* Gerhard,1853
- 122. *Phengaris arion* (Linnaeus,1758)** (Lycaenidae) Synonym(s): *arion* Linnaeus,1758; *telegone* Bergsträßer,1779; *telegones* Bergsträßer,1779; *mamers* Bergsträßer,1779; *arctophoni* Bergsträßer,1779; *arcina* Fruhstorfer,1910; *eutyphron* Fruhstorfer,1915; *microchroa* Verity,1948; *gelbiae* Lempke,1956
- 123. *Plebejus (Kretania) iranicus* (Forster,1938)** (Lycaenidae) Synonym(s): *iranicus* Forster,1938
- 124. *Plebejus (Lycaeides) christophi* (Staudinger,1874)** (Lycaenidae) Synonym(s): *christophi* Staudinger,1874; *argivus* Staudinger,1886.
- 125. *Plebejus (Lycaeides) idas* (Linnaeus,1761)** (Lycaenidae) Synonym(s): *idas* Linnaeus,1761; *leodorus* Esper,1782; *acreon* Fabricius,1787; *amphion* Fabricius,1793.
- 126. *Plebejus (Plebejides) zephyrinus* (Christoph,1884)** (Lycaenidae) Synonym(s): *zephyrinus* Christoph,1884
- 127. *Plebejus (s.str.) argus* (Linnaeus,1758)** (Lycaenidae) Synonym(s): *argus* Linnaeus,1758; *aegon* Denis & Schiffermüller,1775; *plouharnelensis* Oberthür,1926; *pulchraphilonomae* Verity,1931.
- 128. *Polyommatus (Agriades (s.str.)) pyrenaicus* (Boisduval,1840)** (Lycaenidae) Synonym(s): *pyrenaicus* Boisduval,1840; *#pyrenicus* Naderi,2003
- 129. *Polyommatus (Albulina (Plebejidea)) loewii* (Zeller,1847)** (Lycaenidae) Synonym(s): *loewii* Zeller,1847; *empyrea* Gerhard,[1851]; *gigas* Staudinger,1871; *#robusta* Turati & Fiori,1930; *germanicae* Pfeiffer,1932; *dzhegamati* Sheljuzhko,1934.
- 130. *Polyommatus (Albulina (Plebejidea)) rosei* (Eckweiler,1989)** (Lycaenidae) Synonym(s): *rosei* Eckweiler,1989
- 131. *Polyommatus (Albulina (Vacciniina)) alcedo* (Christoph,1877)** (Lycaenidae) Synonym(s): *alcedo* Christoph,1877
- 132. *Polyommatus (Albulina (Vacciniina)) morgianus* (Kirby,1871)** (Lycaenidae) Synonym(s): *hyrcana* Lederer,1869 nec Feld.,1860; *morgiana* Kirby,1871.
- 133. *Polyommatus (Aricia (Eumedonia)) eumedon* (Esper,[1780])** (Lycaenidae) Synonym(s): *chiron* Rottemburg,1775 nec Fabr.,1775; *eumedon* Esper,[1780]; *osiris* O.Bang-Haas,1927 nec Hopff.,1855; *rumeliensis* Eitschberger & Stein.,1975; *jeanensis* Eitschberger & Stein.,1975; *kagizmanensis* Koçak,1980.
- 134. *Polyommatus (Aricia (Ultraaricia)) anteros* (Freyer,[1838])** (Lycaenidae) Synonym(s): *anteros* Freyer,[1838]; *eroides* Gerhard,[1851] nec Frivaldsky,1835; *orpheus* Nekrutenko,1980.
- 135. *Polyommatus (Aricia (Ultraaricia)) crassipunctus* (Christoph,1893)** (Lycaenidae) Synonym(s): *crassipunctus* Christoph,1893; *#crassipunctata* Seitz,1909.
- 136. *Polyommatus (Aricia (s.str.)) agestis* ([Denis & Schiffermüller],1775)** (Lycaenidae) Synonym(s): *medon* Hufnagel,1766 nec Linn.,1763; *alexis* Rottemburg,1775 nec Poda,1761; *agestis* [Denis & Schiffermüller],1775; *astrarche* Bergsträßer,[1779].
- 137. *Polyommatus (Aricia (s.str.)) artaxerxes* (Fabricius,1793)** (Lycaenidae) Synonym(s): *artaxerxes* Fabricius,1793.
- 138. *Polyommatus (s.str. (Agrodiaetus (Actisia))) pseudactis* (Forster,1960)** (Lycaenidae) Synonym(s): *pseudactis* Forster,1960; *vaspurakani* Lukhtanov & Dantchenko,2003
- 139. *Polyommatus (s.str. (Agrodiaetus (Admetusia))) alcestis* (Zerny,1932)** (Lycaenidae) Synonym(s): *alcestis* Zerny,1932; *ahmadi* Carbonell,2001; *karacetinae* Lukhtanov & Dantchenko,2002.
- 140. *Polyommatus (s.str. (Agrodiaetus (Admetusia))) demavendi* (Pfeiffer,1938)** (Lycaenidae) Synonym(s): *demavendi* Pfeiffer,1938; *#demavendi* de Lesse,1960
- 141. *Polyommatus (s.str. (Agrodiaetus (Admetusia))) eriwanensis* (Forster,1960)** (Lycaenidae) Synonym(s): *eriwanensis* Forster,1960
- 142. *Polyommatus (s.str. (Agrodiaetus (Admetusia))) urmiaensis* Schurian & Ten Hagen,2003** (Lycaenidae) Synonym(s): *urmiaensis* Schurian & Ten Hagen,2003
- 143. *Polyommatus (s.str. (Agrodiaetus (Antidolus))) antidolus* (Rebel,1901)** (Lycaenidae) Synonym(s): *antidolus* Rebel,1901
- 144. *Polyommatus (s.str. (Agrodiaetus (Antidolus))) morgani* (Le Cerf,[1910])** (Lycaenidae) Synonym(s): *morgani* Le Cerf,[1910]
- 145. *Polyommatus (s.str. (Agrodiaetus (Phyllisia))) baytopi* (De Lesse,1959)** (Lycaenidae) Synonym(s): *baytopi* De Lesse,1959
- 146. *Polyommatus (s.str. (Agrodiaetus (Phyllisia))) iphidamon* (Staudinger,1899)** (Lycaenidae) Synonym(s): *iphidamon* Staudinger,1899
- 147. *Polyommatus (s.str. (Agrodiaetus (Phyllisia))) iphigenia* (Herrich-Schäffer,[1847])** (Lycaenidae) Synonym(s): *iphigenia* Herrich-Schäffer,[1847]
- 148. *Polyommatus (s.str. (Agrodiaetus (Phyllisia))) rovshani* Dantchenko & Lukhtanov,1994** (Lycaenidae) Synonym(s): *rovshani* Dantchenko & Lukhtanov,1994
- 149. *Polyommatus (s.str. (Agrodiaetus (Phyllisia))) vanensis* (De Lesse,1957)** (Lycaenidae) Synonym(s): *vanensis* De Lesse,1957

- 150. Polyommatus (s.str. (Agrodiaetus (Transcaspicus))) altivagans (Forster,1956)** (Lycaenidae) Synonym(s): *altivagans* Forster,1956
- 151. Polyommatus (s.str. (Agrodiaetus (Transcaspicus))) aserbeidschanus (Forster,1956)** (Lycaenidae) Synonym(s): *aserbeidschana* Forster,1956
- 152. Polyommatus (s.str. (Agrodiaetus (Transcaspicus))) huberti (Carbonell,1993)** (Lycaenidae) Synonym(s): *huberti* Carbonell,1993
- 153. Polyommatus (s.str. (Agrodiaetus (Transcaspicus))) ninae (Forster,1956)** (Lycaenidae) Synonym(s): *ninae* Forster,1956
- 154. Polyommatus (s.str. (Agrodiaetus (Transcaspicus))) surakovi Dantchenko & Lukhtanov,1994** (Lycaenidae) Synonym(s): *surakovi* Dantchenko & Lukhtanov,1994; *sekercioglui* Dantchenko & Lukhtanov,2002
- 155. Polyommatus (s.str. (Agrodiaetus (Transcaspicus))) turcicola (Koçak,1977)** (Lycaenidae) Synonym(s): *turcicola* Koçak,1977; *#turcicolus* Nazari,2003
- 156. Polyommatus (s.str. (Agrodiaetus (Xerxesia))) cyaneus (Staudinger,1899)** (Lycaenidae) Synonym(s): *cyaneus* Staudinger,1899; *pseudocyaneus* Forster,1956.
- 157. Polyommatus (s.str. (Cyaniris)) bellis (Freyer,[1842])** (Lycaenidae) Synonym(s): *bellis* Freyer,[1842]
- 158. Polyommatus (s.str. (Lysandra)) bellargus (Rottemburg,1775)** (Lycaenidae) Synonym(s): *bellargus* Rottemburg,1775; *thetis* Rottemburg,1775 nec Dru.,1773; *adonis* Denis & Schiffermüller,[1775]; *salacia* Bergsträßer,1779; *venilia* Bergsträßer,1779; *hyacinthus* Lewin,1795; *urania* Gerhard,[1851]; *persemagna* Verity,1937; *arentissima* Verity,1937; *arens* Verity,1937; *arentior* Verity,1937; *antearentior* Verity,1937; *parabellargus* Verity,1939; *shakla* Higgins,1958
- 159. Polyommatus (s.str. (Lysandra)) corydonius (Herrich-Schäffer,[1852])** (Lycaenidae) Synonym(s): *corydonius* Herrich-Schäffer,[1852]
- 160. Polyommatus (s.str. (Meleageria)) daphnis ([Denis & Schiffermüller],1775)** (Lycaenidae) Synonym(s): *daphnis* [Denis & Schiffermüller],1775; *endymion* [Denis & Schiffermüller],1775 nec Fabricius,1775; *meleager* Esper,1778; *dalmatina* Wagner,1909.
- 161. Polyommatus (s.str. (Neolysandra)) alticola (Christoph,1893)** (Lycaenidae) Synonym(s): *alticola* Christoph,1893; *alexander* Higgins,1981
- 162. Polyommatus (s.str. (Neolysandra)) coelestinus (Eversmann,1843)** (Lycaenidae) Synonym(s): *coelestinus* Eversmann,1843
- 163. Polyommatus (s.str. (Neolysandra)) diana (Miller,[1913])** (Lycaenidae) Synonym(s): *diana* Miller,[1913]
- 164. Polyommatus (s.str. (Neolysandra)) fatima Eckweiler & Schurian,1980** (Lycaenidae) Synonym(s): *fatima* Eckweiler & Schurian,1980
- 165. Polyommatus (s.str. (Plebicula)) amandus (Schneider,1792)** (Lycaenidae) Synonym(s): *icarius* Esper,1789 nec Rottemburg,1775; *amandus* Schneider,1792
- 166. Polyommatus (s.str. (Sublysandra)) aedon (Christoph,1877)** (Lycaenidae) Synonym(s): *aedon* Christoph,1877
- 167. Polyommatus (s.str. (Sublysandra)) myrrhus (Herrich-Schäffer,[1852])** (Lycaenidae) Synonym(s): *myrrhus* Herrich-Schäffer,[1852]
- 168. Polyommatus (s.str. (Thersitesia)) thersites (Canterer,[1835])** (Lycaenidae) Synonym(s): *thersites* Canterer,[1835]; *chapmani* Ball,1914; *meridiana* Verity,1919.
- 169. Polyommatus (s.str.) ciloicus De Freina & Witt,1983** (Lycaenidae) Synonym(s): *ciloicus* De Freina & Witt,1983
- 170. Polyommatus (s.str.) eros (Ochsenheimer,1808)** (Lycaenidae) Synonym(s): *tithonus* Hübner,[1804] nec Linn.,1771; *eros* Ochsenheimer,1808
- 171. Polyommatus (s.str.) icarus (Rottemburg,1775)** (Lycaenidae) Synonym(s): *argus* Poda,1761 nec Linn.,1758; *alexis* Scopoli,1763 nec Pda,1761; *thetis* Esper,1777 nec Dru.,1773; *icarus* Rottemburg,1775; *pampholyge* Bergsträßer,1779; *candybus* Bergsträßer,1779; *candiope* Bergsträßer,1779; *candaon* Bergsträßer,1779; *oceanus* Bergsträßer,1779; *fusciolus* Fourcroy,1785; *icarinus* Scriba,1795; *pusillus* Gerhard,1851; *neglectus* Stradomsky & Arzanov,1999
- 172. Pseudophilotes vicrama (Moore,1865)** (Lycaenidae) Synonym(s): *vicrama* Moore,1865
- 173. Quercusia quercus (Linnaeus,1758)** (Lycaenidae) Synonym(s): *quercus* Linnaeus,1758; *longicauda* Riley,1921
- 174. Rubrapterus bavius (Eversmann,1832)** (Lycaenidae) Synonym(s): *bavius* Eversmann,1832
- 175. Satyrium (Nordmannia) abdominalis (Gerhard,[1850])** (Lycaenidae) Synonym(s): *abdominalis* Gerhard,[1850]; *gerhardi* Staudinger,[1895]; *alboabdominalis* Pfeiffer,1938; *persica* Riley,1939; *#gerhardti* Wiltshire,1943; *elta* Higgins,1964.
- 176. Satyrium (Nordmannia) ilicis (Esper,[1779])** (Lycaenidae) Synonym(s): *ilicis* Esper,[1779]
- 177. Satyrium (Nordmannia) marcidum (Riley,1921)** (Lycaenidae) Synonym(s): *marcidum* Riley,1921
- 178. Satyrium (Strymonidia) spini (Fabricius,1787)** (Lycaenidae) Synonym(s): *#spini* [Denis & Schiffermüller],1775; *lynceus* Esper,[1779] nec Drury,1773; *spini* Fabricius,1787; *cerasi* Herbst,1804 nec Fabricius,1787; *#albosparsa* Oberthür,1910; *anatolicus* De Lattin,1950.
- 179. Satyrium (Strymonidia) w-album (Knoch,1782)** (Lycaenidae) Synonym(s): *w-album* Knoch,1782; *cerasi* Fabricius,1787; *majuscula* Jachontov,1911.
- 180. Satyrium (Superflua) hyrcanicum (Riley,1939)** (Lycaenidae) Synonym(s): *hyrcanicum* Riley,1939
- 181. Satyrium (Superflua) ledereri (Boisduval,1848)** (Lycaenidae) Synonym(s): *ledereri* Boisduval,1848



- 182. Tarucus (s.str.) balkanicus (Freyer,[1843])** (Lycaenidae) Synonym(s): *balkanicus* Freyer,[1843]  
**183. Tomares callimachus (Eversmann,1848)** (Lycaenidae) Synonym(s): *callimachus* Eversmann,1848  
**184. Tomares romanovi (Christoph,1882)** (Lycaenidae) Synonym(s): *romanovi* Christoph,1882  
**185. Turanana endymion (Freyer,[1850])** (Lycaenidae) Synonym(s): *endymion* Freyer,[1850]

### Lymantriidae (1 species)

- 186. Lymantria dispar (Linnaeus,1758)** (Lymantriidae) Synonym(s): *dispar* Linnaeus,1758; *disparina* Müller,1802; *japonica* Motschulsky,1860; *disparoides* Mabille,1876; *bordigalensis* Mabille,1876; *asiatica* Wnukowsky,1926

### Lyonetidae (1 species)

- 187. Lyonetia prunifoliella (Hübner,1796)** (Lyonetiidae) Synonym(s): *prunifoliella* Hübner,1796; *padifoliella* Hübner,[1813]; *sittaepenella* Hübner,[1825]; *acerifoliella* Curtis,1850

### Noctuidae (118 species)

- 188. Abrostola clarissa (Staudinger,1900)** (Noctuidae) Synonym(s): *clarissa* Staudinger,1900  
**189. Abrostola hyrcanica Hacker,2002** (Noctuidae) Synonym(s): *hyrcanica* Hacker,2002  
**190. Abrostola tripartita (Hufnagel,1766)** (Noctuidae) Synonym(s): *tripartita* Hufnagel,1766; *conspicillum* Retzius,1783; *urticae* Hübner,[1817]  
**191. Acontia (Emmelia) trabealis (Scopoli,1763)** (Noctuidae) Synonym(s): *trabealis* Scopoli,1763; *arabica* Hufnagel,1766; *sulphuralis* Linnaeus,1767; *sulphurea* [Denis & Schiffermüller],1775; *lugubris* Fabricius,1777; *histrionella* Goeze,1783; *arlequinetta* Fourcroy,1785; *trabeata* Borkhausen,1790; *pardalina* Walker,1865; *deleta* Staudinger,1877; *flavonitens* Austaut,1880; *algira* Oberthür,1881  
**192. Acontia (Uracontia) titania (Esper,[1798])** (Noctuidae) Synonym(s): *titania* Esper,[1798]; *urania* Frivaldsky,1835; *eversmanni* Kolenati,1846.  
**193. Aedophron phlebophora Lederer,1858** (Noctuidae) Synonym(s): *phlebophora* Lederer,1858  
**194. Aegle exquisita Boursin,1969** (Noctuidae) Synonym(s): *exquisita* Boursin,1969  
**195. Aegle kaekeritziana (Hübner,[1799])** (Noctuidae) Synonym(s): *kaekeritziana* Hübner,[1799]; *flava* Hübner,[1809]; *flavida* Ochsenheimer,1816.  
**196. Aegle semicana (Esper,[1798])** (Noctuidae) Synonym(s): *semicana* Esper,[1798]; *vespertalis* Hübner,[1813]; *mimetes* Brandt,1938; *#verspatalis* Hacker,1986.  
**197. Agrotis (s.str.) exclamationis (Linnaeus,1758)** (Noctuidae) Synonym(s): *exclamationis* Linnaeus,1758; *clavus* Hufnagel,1766; *murina* Goeze,1781 *nec* Hufnagel,1766; *bimaculata* Geoffroy,1785; *picea* Haworth,1809; *plaga* Stephens,1835; *haruspex* Le Cerf,1924; *nigriorbis* Zerny,1934.  
**198. Agrotis (s.str.) ipsilon (Hufnagel,1766)** (Noctuidae) Synonym(s): *ipsilon* Hufnagel,1766; *suffusa* [Denis & Schiffermüller],1775; *idonea* Cramer,[1780]; *spinula* Esper,[1786]; *spinifera* Villers,1789.  
**199. Agrotis (s.str.) segetum ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *segetum* [Denis & Schiffermüller],1775; *sordida* [Denis & Schiffermüller],1775; *undulatus* Goeze,1781 (*praeocc.*); *nigricornis* Villers,1789; *segetis* Fabricius,1794; *catenatus* Haworth,1803; *monileus* Haworth,1803; *pectinatus* Haworth,1803; *connexus* Haworth,1803; *subtratus* Haworth,1803; *nigricornutus* Haworth,1803; *praecox* Hübner,[1808]; *fervida* Hübner,[1824]; *affinis* Stephens,1829; *sicula* Boisduval,1840; *dimidia* Zeller,1847; *sicania* Guenée,1852; *marginalis* Walker,1857; *aversa* Walker,1857; *correctus* Walker,1857; *obliviosus* Walker,1857; *denticulosus* Wallengren,1860; *certificata* Walker,1865; *conspurcatus* Walker,1865; *repulsus* Walker,1865; *ingratus* Butler,1878; *pallidus* Staudinger,1881; *lassa* Swinhoe,1886.  
**200. Amphipoea maryamae Zahiri & Fibiger,2006** (Noctuidae) Synonym(s): *maryamae* Zahiri & Fibiger,2006  
**201. Antarchaea conicephala (Staudinger,1870)** (Noctuidae) Synonym(s): *conicephala* Staudinger,1870 [April]; *conicephala* Staudinger,1870 [Oct.]; *barcinonensis* Milliére,1872; *fumicollis* Rogenhofer,1873.  
**202. Apamea (s.str.) syriaca (Osthelder,1933)** (Noctuidae) Synonym(s): *syriaca* Osthelder,1933; *#albida* Osthelder,1933; *tallosi* Kovacs & Varga,1969.  
**203. Armada panaceorum (Ménétriés,1849)** (Noctuidae) Synonym(s): *panaceorum* Ménétriés,1849; *distincta* Rothschild,1915.  
**204. Autographa gamma (Linnaeus,1758)** (Noctuidae) Synonym(s): *gamma* Linnaeus,1758; *messmeri* Schadewald,1992; *voelkeri* Schadewald,1992.  
**205. Bryomima carducha Staudinger,1900** (Noctuidae) Synonym(s): *carducha* Staudinger,1900  
**206. Callistege mi (Clerck,1759)** (Noctuidae) Synonym(s): *#mi* Clerck,1759; *graminis* Hufnagel,1766; *albolineata* Goeze,1781; *litterata* Cyrrilli,1787 *nec* Sc.,1763  
**207. Caradrina (Boursinidrina) rjabovi (Boursin,1936)** (Noctuidae) Synonym(s): *rjabovi* Boursin,1936; *pseudovicina* Boursin,1939  
**208. Caradrina (Eremodrina) armeniaca (Boursin,1936)** (Noctuidae) Synonym(s): *armeniaca* Boursin,1936  
**209. Caradrina (Eremodrina) belucha Swinhoe,1885** (Noctuidae) Synonym(s): *belucha* Swinhoe,1885; *conditorana* Pinker,1980  
**210. Caradrina (Eremodrina) inumbrata (Staudinger,1900)** (Noctuidae) Synonym(s): *inumbrata* Staudinger,1900; *inumbratella* Pinker,1980  
**211. Caradrina (Eremodrina) zernyi (Boursin,1936)** (Noctuidae) Synonym(s): *zernyi* Boursin,1936; *signata* Boursin,1936

- 212. Caradrina (Paradrina) boursini (F.Wagner,1936)** (Noctuidae) Synonym(s): *boursini* F.Wagner,1936
- 213. Cardepija sociabilis (Graslin,1850)** (Noctuidae) Synonym(s): *sociabilis* Graslin,1850; *ghigii* Turati,1926; *pedrosai* Monteiro,1972; *grisea* Berio,1986.
- 214. Catocala (s.str.) abacta Staudinger,1900** (Noctuidae) Synonym(s): *abacta* Staudinger,1900; *irana* Brandt,1938; *#iranica* Hacker,1986.
- 215. Catocala (s.str.) elocata (Esper,[1787])** (Noctuidae) Synonym(s): *elocata* Esper,[1787]; *marita* Hübner,[1813]; *nurus* Hübner,[1822]
- 216. Catocala (s.str.) neonympha (Esper,[1805])** (Noctuidae) Synonym(s): *neonympha* Esper,[1805]
- 217. Catocala (s.str.) puerpera (Giorna,1791)** (Noctuidae) Synonym(s): *puerpera* Giorna,1791; *amasia* Esper,[1804] nec Sm.,1797; *pellex* Hübner,[1809]; *romana* Schultz,1909
- 218. Catocala (s.str.) puerperoides Zahiri et al.,2008** (Noctuidae) Synonym(s): *puerperoides* Zahiri et al.,2008
- 219. Chazaria incarnata (Freyer,1838)** (Noctuidae) Synonym(s): *incarnata* Freyer,1838; *boisduvali* Boisduval,1840.
- 220. Chersotis (s.str.) fimbriola (Esper,[1798])** (Noctuidae) Synonym(s): *fimbriola* Esper,[1798]
- 221. Chersotis (s.str.) sarhada Brandt,1941** (Noctuidae) Synonym(s): *sarhada* Brandt,1941
- 222. Cleonymia (Serryvania) opposita (Lederer,1870)** (Noctuidae) Synonym(s): *opposita* Lederer,1870; *#obscurior* Osthelder,1933.
- 223. Cornutiplusia circumflexa (Linnaeus,1767)** (Noctuidae) Synonym(s): *circumflexa* Linnaeus,1767; *lunata* Fabricius,1787; *flexuosa* Donovan,1807; *daubii* Freyer,1838; *graphica* Herrich-Schäffer,1851; *patefacta* Walker,[1858]; *reticulata* Moore,1882; *clarescens* Pinker & Bacallado,1975; *#unata* Kononenko & Pinratana,2005
- 224. Cryphia (Bryoleuca) eucta (Hampson,1908)** (Noctuidae) Synonym(s): *eucta* Hampson,1908
- 225. Cryphia (Bryophila) domestica (Hufnagel,1766)** (Noctuidae) Synonym(s): *domestica* Hufnagel,1766; *perla* [Denis & Schiffermüller],1775.
- 226. Cryphia (Bryophila) maeonis (Lederer,1865)** (Noctuidae) Synonym(s): *maeonis* Lederer,1865; *praecana* Christoph,1893; *rubellina* Staudinger,1900; *sordida* Staudinger,1900; *sabulosa* W.Warren,1909.
- 227. Cucullia (s.str.) argentina (Fabricius,1787)** (Noctuidae) Synonym(s): *argentina* Fabricius,1787; *achalina* Püngeler,1900; *grisescens* F.Wagner,1931 nec Lch.,1900; *anatoliensis* Koçak,1980.
- 228. Cucullia (s.str.) petrophila G.Ronkay & L.Ronkay,1998** (Noctuidae) Synonym(s): *petrophila* G.Ronkay & L.Ronkay,1998
- 229. Desertoplusia colornata Varga & L.Ronkay,1991** (Noctuidae) Synonym(s): *bella* auct. nec Chr.,1887; *colornata* Varga & L.Ronkay,1991; *#colornata* Hacker,1992
- 230. Diachrysia chrysis (Linnaeus,1758)** (Noctuidae) Synonym(s): *chrysis* Linnaeus,1758
- 231. Dichagyris (Yigoga) flavina (Herrich-Schäffer,[1852])** (Noctuidae) Synonym(s): *flavina* Herrich-Schäffer,[1852]; *ochrina* Staudinger,1898; *pretiosa* Caradja,1931.
- 232. Dichagyris (Yigoga) gracilis (F.Wagner,1929)** (Noctuidae) Synonym(s): *gracilis* F.Wagner,1929
- 233. Dichagyris (Yigoga) iranica (Koçak,1980)** (Noctuidae) Synonym(s): *hyrcana* Corti & Draudt,1933 nec Stgr.,1900; *iranica* Koçak,1980.
- 234. Dichagyris (Yigoga) romanovi (Christoph,1885)** (Noctuidae) Synonym(s): *romanovi* Christoph,1885; *#nura* Strand,1915; *karsholti* Fibiger,1990.
- 235. Dichagyris (Yigoga) signifera ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *#signifera* [Denis & Schiffermüller],1775
- 236. Dichagyris (Yigoga) sincera (De Freina & Hacker,1985)** (Noctuidae) Synonym(s): *sincera* De Freina & Hacker,1985.
- 237. Dichagyris (s.str.) forficula (Eversmann,1851)** (Noctuidae) Synonym(s): *forficula* Eversmann,1851
- 238. Dichagyris (s.str.) squalidior (Staudinger,1901)** (Noctuidae) Synonym(s): *squalidior* Staudinger,1901
- 239. Dichagyris (s.str.) squalorum (Eversmann,1856)** (Noctuidae) Synonym(s): *squalorum* Eversmann,1856; *nigrolineata* Kozhantshikov,1930
- 240. Dichagyris (s.str.) terminicincta (Corti & Draudt,1933)** (Noctuidae) Synonym(s): *terminicincta* Corti & Draudt,1933; *maraschi* Corti & Draudt,1933.
- 241. Dicycla oo (Linnaeus,1758)** (Noctuidae) Synonym(s): *oo* Linnaeus,1758; *ferruginago* Hübner,[1803].
- 242. Drasteria cailino (Lefèbvre,1827)** (Noctuidae) Synonym(s): *cailino* Lefèbvre,1827; *caylino* Lederer,1857
- 243. Drasteria flexuosa (Ménétriés,1848)** (Noctuidae) Synonym(s): *flexuosa* Ménétriés,1848; *singularis* Kollar,[1849]; *inepta* Butler,1881.
- 244. Drasteria rada (Boisduval,1848)** (Noctuidae) Synonym(s): *rada* Boisduval,1848; *roda* Herrich-Schäffer,1851.
- 245. Earias clorana (Linnaeus,1761)** (Noctuidae) Synonym(s): *clorana* Linnaeus,1761; *viride* Retzius,1783
- 246. Episema glaucina (Esper,[1789])** (Noctuidae) Synonym(s): *glaucina* Esper,[1789]; *dentimacula* Hübner,1790; *unicolor* Duponchel,1835; *hispana* Boisduval,[1837]; *meridionalis* Calberla,1888; *abruzzorum* Dannehl,1929.
- 247. Eublemma (Glossodice) polygrammum (Duponchel,[1842])** (Noctuidae) Synonym(s): *polygramma* Duponchel,[1842]; *argillacea* Eversmann,1844; *nuda* Christoph,1862; *violetta* Staudinger,1889.
- 248. Eublemma (bulla-gr.) lutosum Staudinger,1892** (Noctuidae) Synonym(s): *lutosum* Staudinger,1892; *substrigula* Staudinger,1892
- 249. Eublemma (candidana-gr.) aureolum Fibiger & Hacker,2002** (Noctuidae) Synonym(s): *aureolum* Fibiger & Hacker,2002

- 250. Eublemma (chlorotica-gr.) chloroticum (Lederer,1858)** (Noctuidae) Synonym(s): *chlorotica* Lederer,1858
- 251. Eublemma (pallidula-gr.) uniformis (Staudinger,1879)** (Noctuidae) Synonym(s): *uniformis* Staudinger,1879
- 252. Eublemma (parva-gr.) parvum (Hübner,[1808])** (Noctuidae) Synonym(s): *parva* Hübner,[1808]; *rubefacta* Mabille,1869; *chalybea* Swinhoe,1884; *nymphodora* Meyrick,1902.
- 253. Euchalcia (s.str.) emichi (Rogenhofer,1873)** (Noctuidae) Synonym(s): *emichi* Rogenhofer,1873
- 254. Euchalcia (s.str.) hedeia Dufay,1978** (Noctuidae) Synonym(s): *hedeia* Dufay,1978; *#hedeja* Hacker,1990; *aureolineata* Ronkay & Gyulai,1997.
- 255. Euchalcia (s.str.) incredibilis Hacker & Ebert,2002** (Noctuidae) Synonym(s): *incredibilis* Hacker & Ebert,2002
- 256. Euchalcia (s.str.) taurica (Osthelder,1933)** (Noctuidae) Synonym(s): *taurica* Osthelder,1933
- 257. Eugnorisma (s.str.) persago Gyulai & L.Ronkay,2006** (Noctuidae) Synonym(s): *persago* Gyulai & L.Ronkay,2006
- 258. Eulocastra diaphora (Staudinger,1879)** (Noctuidae) Synonym(s): *diaphora* Staudinger,1879; *triangularis* W.Warren,1888; *atribasalis* Hampson,1896; *laticincta* Staudinger,1898.
- 259. Euxoa (s.str.) aquilina ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *aquilina* [Denis & Schiffermüller],1775; *fictilis* Hübner,[1813]; *unicolor* Hübner,[1813]; *petrina* Mayer,1937.
- 260. Euxoa (s.str.) christophi (Staudinger,1870)** (Noctuidae) Synonym(s): *christophi* Staudinger,1870
- 261. Euxoa (s.str.) conspicua (Hübner,[1824])** (Noctuidae) Synonym(s): *conspicua* Hübner,[1824]; *agricola* Boisduval,1829; *lycarum* Herrich-Schäffer,1846; *abdita* De Joannis,1891; *#indistincta* Strand,1915; *osthelderi* Corti,1931; *complicata* Corti,1931.
- 262. Hadena (Anepia) perplexa ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *perplexa* [Denis & Schiffermüller],1775; *lepida* Esper,[1790] *nec* Cr.,[1779]; *carpophaga* Brahm,1791; *ochracea* Haworth,1809; *capsophila* Boisduval,1840; *nisus* Germar,[1842]; *repanda* Herrich-Schäffer,[1850]; *atlas* A.E.Prout,1929; *sicula* Draudt,1933
- 263. Hadena (Enterpia) laudeti (Boisduval,1840)** (Noctuidae) Synonym(s): *laudeti* Boisduval,1840
- 264. Hadena (Maschukia) pumila (Staudinger,1879)** (Noctuidae) Synonym(s): *pumila* Staudinger,1879
- 265. Hadena (s.str.(Clarhadena)) clara (Staudinger,1901)** (Noctuidae) Synonym(s): *clara* Staudinger,1901; *hyrcana* Draudt,1933; *transiens* Draudt,1938.
- 266. Hadena (s.str.(Clarhadena)) hyrcanoides Hacker,1996** (Noctuidae) Synonym(s): *hyrcanoides* Hacker,1996
- 267. Hadena (s.str.(Hadenobilis)) melanochoa (Staudinger,1892)** (Noctuidae) Synonym(s): *melanochoa* Staudinger,1892
- 268. Hadena (s.str.(Magnifica)) magnifica Hacker,1996** (Noctuidae) Synonym(s): *magnifica* Hacker,1996
- 269. Hadena (s.str.(Miselia)) compta ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *compta* [Denis & Schiffermüller],1775; *viscaria* Guenée,1852; *galactina* Turati,1908.
- 270. Hadena (s.str.(Montanohadena)) pseudohyrcana De Freina & Hacker,1985** (Noctuidae) Synonym(s): *pseudohyrcana* De Freina & Hacker,1985.
- 271. Hadula (Calocestra (Hadumendax)) mendax (Staudinger,1879)** (Noctuidae) Synonym(s): *mendax* Staudinger,1879
- 272. Hadula (Calocestra (Hadumendax)) mendica (Staudinger,[1895])** (Noctuidae) Synonym(s): *mendica* Staudinger,[1895].
- 273. Hadula (Calocestra (Hadupugnax)) pugnax (Hübner,[1824])** (Noctuidae) Synonym(s): *pugnax* Hübner,[1824]; *treitschkii* Boisduval,1827; *petricolor* Turati,1923; *italica* Berio,1942
- 274. Hadula (Calocestra (Hadutrifolium)) trifolii (Hufnagel,1766)** (Noctuidae) Synonym(s): *trifolii* Hufnagel,1766; *chenopodii* [Denis & Schiffermüller],1775; *verna* Esper,[1787]; *saucia* Esper,[1790]; *infraina* Haworth,1809; *contribulis* Duponchel,1827; *farkasii* Treitschke,1835; *inquieta* Walker,1857; *albifusa* Walker,1857; *cinnamomina* Rothschild,1913; *taylori* Rothschild,1921
- 275. Hadula (s.str. (Habulorum)) sabulorum (Alpheraky,1882)** (Noctuidae) Synonym(s): *sabulorum* Alpheraky,1882
- 276. Hecatera spinaciae (Vieweg,1790)** (Noctuidae) Synonym(s): *#dysodea* [Denis & Schiffermüller],1775; *spinaciae* Vieweg,1790; *ornata* De Villers,1789; *chrysozona* Borkhausen,1792; *ranunculina* Haworth,1809; *caduca* Herrich-Schäffer,[1851]; *innocens* Staudinger,1871; *subflava* W.Warren,1910.
- 277. Heliothis viriplaca (Hufnagel,1766)** (Noctuidae) Synonym(s): *viriplaca* Hufnagel,1766; *dipsacea* Linnaeus,1767; *spergulariae* Lederer,1857; *#dispaceus* Alpheraky,1882; *salamantina* Fernald,1928.
- 278. Leucania loreyi (Duponchel,1827)** (Noctuidae) Synonym(s): *loreyi* Duponchel,1827; *caricis* Walker,1856; *collecta* Walker,1856; *curcula* Walker,1856; *denotata* Walker,1856; *designata* Walker,1856; *exterior* Walker,1856; *thoracica* Walker,1856.
- 279. Macdunnoughia confusa (Stephens,1850)** (Noctuidae) Synonym(s): *confusa* Stephens,1850; *gutta* Guenée,1852.
- 280. Megalodes eximia (Freyer,1845)** (Noctuidae) Synonym(s): *eximia* Freyer,1845
- 281. Meganephria bimaculosa (Linnaeus,1767)** (Noctuidae) Synonym(s): *bimaculosa* Linnaeus,1767; *italica* Esper,[1791]; *binubeculosa* Esper,[1804].
- 282. Metachrostis dardouini (Boisduval,1840)** (Noctuidae) Synonym(s): *dardouini* Boisduval,1840; *velox* Treitschke *nec* Hbn.,[1813]; *mendacula* Freyer,1841; *dilutior* Schwingenschuss,1926
- 283. Metalopha (s.str.) liturata (Christoph,1887)** (Noctuidae) Synonym(s): *liturata* Christoph,1887; *plusina* Staudinger,1892.



- 284. Mythimna (Aletia) l-album (Linnaeus,1767)** (Noctuidae) Synonym(s): *l-album* Linnaeus,1767; *penicillata* Moore,1881
- 285. Noctua (Paranoctua) comes (Hübner,[1813])** (Noctuidae) Synonym(s): *orbana* Fabricius,1787 nec Hufn.,1767; *comes* Hübner,[1813]; *adsequa* Treitschke,1825; *prosequa* Treitschke,1825; *bergensis* Sp.-Schn.,1901.
- 286. Pamparama acuta (Freyer,[1837])** (Noctuidae) Synonym(s): *acuta* Freyer,[1837]; *producta* Lederer,1857; *pygmaea* Staudinger,1871.
- 287. Paraegle subochracea (Staudinger,1892)** (Noctuidae) Synonym(s): *subochracea* Staudinger,1892
- 288. Parallelia algira (Linnaeus,1767)** (Noctuidae) Synonym(s): *algira* Linnaeus,1767; *achatina* Sulzer,1776; *alterna* Villers,1789; *triangularis* Hübner,[1803] nec Thunb.,1784; *albivitta* Guenée,1852; *festina* Walker,1858; *olympia* Swinhoe,1885; *europa* Schawerda,1912
- 289. Pericyma squalens Lederer,1855** (Noctuidae) Synonym(s): *squalens* Lederer,1855
- 290. Periphanes delphinii (Linnaeus,1758)** (Noctuidae) Synonym(s): *delphinii* Linnaeus,1758; *darollesi* Oberthür,1876; *delphini* Hampson,1903.
- 291. Periphanes treitschkii (Frivaldszky,1835)** (Noctuidae) Synonym(s): *treitschkii* Frivaldszky,1835.
- 292. Plusia festucae (Linnaeus,1758)** (Noctuidae) Synonym(s): *festucae* Linnaeus,1758; *aureoargentea* Retzius,1783; *yokohamensis* Bryk,1949; *japonibia* Bryk,1949
- 293. Plusidia cheiranthi (Tauscher,1809)** (Noctuidae) Synonym(s): *cheiranthi* Tauscher,1809; *eygenia* Eversmann,1841; *abrostoloides* Butler,1879; *separanda* W.Warren,1913.
- 294. Protoschinia scutosa ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *#scutosa* [Denis & Schiffermüller],1775; *nuchalis* Grote,1878
- 295. Recophora beata (Staudinger,1892)** (Noctuidae) Synonym(s): *beata* Staudinger,1892
- 296. Recophora hreblayi Hacker & L.Ronkay,2002** (Noctuidae) Synonym(s): *hreblayi* Hacker & L.Ronkay,2002
- 297. Rhyacia (s.str.) lucipeta ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *lucipeta* [Denis & Schiffermüller],1775.
- 298. Spodoptera exiguum (Hübner,[1808])** (Noctuidae) Synonym(s): *exigua* Hübner,[1808]; *fulgens* Geyer,[1832]; *pygmaea* Rambur,1834; *junceti* Zeller,1847; *caradrinoides* Walker,1856; *flavimaculata* Harvey,1876; *venosa* Butler,1880; *sebhana* Austaut,1880; *antipodea* W.Warren,1914; *protector* De Laever,1985.
- 299. Trichoplusia ni (Hübner,[1803])** (Noctuidae) Synonym(s): *ni* Hübner,[1803]; *humilis* Walker,1858; *extrahens* Walker,1858; *brassicae* Riley,1870; *echinocystidis* Strecker,1874.
- 300. Tyta luctuosa ([Denis & Schiffermüller],1775)** (Noctuidae) Synonym(s): *luctuosa* [Denis & Schiffermüller],1775; *italica* Fabricius,1781; *atra* Goeze,1781 nec Linn.,1767; *astroites* Fourcroy,1785; *maculosa* Villers,1789
- 301. Ulochlana hirta (Hübner,[1813])** (Noctuidae) Synonym(s): *hirta* Hübner,[1813]
- 302. Xanthia (Cirrha) ocellaris (Borkhausen,1792)** (Noctuidae) Synonym(s): *ocellaris* Borkhausen,1792; *palleago* Hübner,[1803].
- 303. Xanthia icteritia (Hufnagel,1766)** (Noctuidae) Synonym(s): *icteritia* Hufnagel,1766; *cerago* [Denis & Schiffermüller],1775; *flavescens* Esper,[1788].
- 304. Zekelita (Ravalita) amseloides Hacker & Ebert,2002** (Noctuidae) Synonym(s): *amseloides* Hacker & Ebert,2002
- 305. Zekelita (Rhynchodontodes) antiqualis (Hübner,[1809])** (Noctuidae) Synonym(s): *antiqualis* Hübner,[1809]; *anatolica* Wagner,1931; *#antiquilis* Zukowsky,1941

#### Notodontidae (2 species)

- 306. Cerura (s.str.) vinula (Linnaeus,1758)** (Notodontidae) Synonym(s): *vinula* Linnaeus,1758; *minax* Hübner,[1803]; *teberdina* Kornejev,1939
- 307. Pheosia grummi (Christoph,1885)** (Notodontidae) Synonym(s): *grummi* Christoph,1885; *brandti* O.Bang-Haas,1936; *#murina* O.Bang-Haas,1936

#### Oecophoridae (1 species)

- 308. Anchinia laureolella Herrich-Schäffer,1854** (Oecophoridae) Synonym(s): *laureolella* Herrich-Schäffer,1854

#### Papilionidae (4 species)

- 309. Papilio (s.str. (Alexanoria)) alexanor Esper,[1800]** (Papilionidae) Synonym(s): *polidamas* De Prunner,1787 nec Linn.,1758; *alexanor* Esper,[1800]; *polychaon* Loche,1801; *destelensis* Nel & Chauliac,1983.
- 310. Papilio (s.str.) machaon Linnaeus,1758** (Papilionidae) Synonym(s): *machaon* Linnaeus,1758; *reginae* Retzius,1783; *umbellatarum* Fabricius,1807; *aurantiaca* Speyer,1858.
- 311. Parnassius (Driopa) mnemosyne (Linnaeus,1758)** (Papilionidae) Synonym(s): *mnemosyne* Linnaeus,1758
- 312. Parnassius (s.str.) apollo (Linnaeus,1758)** (Papilionidae) Synonym(s): *apollo* Linnaeus,1758
- 313. Zerynthia (Allancastris) deyrollei (Oberthür,1869)** (Papilionidae) Synonym(s): *deyrollei* Oberthür,1869; *eisneri* Bernardi,1970; *lycaoniae* Eisner & Wagnener,1974; *#flavomaculata* Verity,1905; *#ochracea* Verity,1905; *#obscurior* Verity,1905; *#subflava* Schultz,1908; *#deflexa* Schultz,1908; *#charis* Schultz,1908; *#separata* Sheljuzhko,1927.

**Pieridae** (20 species)

- 314. Anthocharis cardamines (Linnaeus,1758)** (Pieridae) Synonym(s): *cardamines* Linnaeus,1758; *hesperides* Newman,1894; *britannica* Verity,1908; *meridionalis* Verity,1908 nec Lederer,1852; *montivaga* Turati & Verity,1911
- 315. Anthocharis damone Boisduval,1836** (Pieridae) Synonym(s): *damone* Boisduval,1836
- 316. Aporia (s.str.) crataegi (Linnaeus,1758)** (Pieridae) Synonym(s): *crataegi* Linnaeus,1758; *nigronervosus* Retzius,1783; *minor* Verity,1907; *basanius* Fruhstorfer,1910; *crataegiaugusta* Verity,1937.
- 317. Colias (Eriocolias) crocea (Fourcroy,1785)** (Pieridae) Synonym(s): *crocea* Fourcroy,1785; *pyrenaica* Groum-Grshimailo,1893.
- 318. Colias (Eriocolias) thisoa Ménétriés,1832** (Pieridae) Synonym(s): *thisoa* Ménétriés,1832; *helenia* Herrich-Schäffer,[1844]; *eos* Herrich-Schäffer,[1848]; *#ludmilla* Schulte,1989.
- 319. Colias (Neocolias) aurorina Herrich-Schäffer,[1850]** (Pieridae) Synonym(s): *aurorina* Herrich-Schäffer,[1850]
- 320. Colias (Neocolias) chlorocoma Christoph,1888** (Pieridae) Synonym(s): *chlorocoma* Christoph,1888
- 321. Colias (Neocolias) erate (Esper,[1805])** (Pieridae) Synonym(s): *erate* Esper,[1805]; *afghana* O.Bang-Haas,1927
- 322. Colias (s.str.) alfacariensis Ribbe,1905** (Pieridae) Synonym(s): *alfacariensis* Ribbe,1905
- 323. Gonepteryx (s.str.) farinosa (Zeller,1847)** (Pieridae) Synonym(s): *farinosa* Zeller,1847
- 324. Gonepteryx (s.str.) rhamni (Linnaeus,1758)** (Pieridae) Synonym(s): *rhamni* Linnaeus,1758; *gravesi* Huggins,1956.
- 325. Leptidea duponcheli (Staudinger,1871)** (Pieridae) Synonym(s): *duponcheli* Staudinger,1871; *#dupncheli* Nazari,2003
- 326. Pieris (Artogeia) bryoniae (Hübner,[1804])** (Pieridae) Synonym(s): *bryoniae* Hübner,[1804]; *neobryoniae* Miller,1933; *wolfsbergeri* Eitschberger,[1984]; *debrosi* Eitschberger,[1984] (cf. Leraut,1997).
- 327. Pieris (Artogeia) ergane (Geyer,[1828])** (Pieridae) Synonym(s): *ergane* Geyer,[1828]; *narcaea* Freyer,[1828].
- 328. Pieris (Artogeia) rapae (Linnaeus,1758)** (Pieridae) Synonym(s): *rapae* Linnaeus,1758; *nelo* Bergsträßer,1780; *metra* Stephens,1827; *alpica* Rossi,1929.
- 329. Pieris (s.str.) brassicae (Linnaeus,1758)** (Pieridae) Synonym(s): *brassicae* Linnaeus,1758; *chariclea* Stephens,1827; *#venata* Verity,1908; *cyniphia* Turati,1924.
- 330. Pontia callidice (Hübner,[1800])** (Pieridae) Synonym(s): *callidice* Hübner,[1800]; *callidice* Esper,[1803].
- 331. Pontia chloridice (Hübner,[1813])** (Pieridae) Synonym(s): *ruissiae* Esper,[1784] nec *ruissiae* Esper,[1783]; *chloridice* Hübner,[1813]; *#aestuosa* Staudinger,1901; *albidice* Staudinger,1901 nec Oberthür,1881.
- 332. Pontia edusa (Fabricius,1777)** (Pieridae) Synonym(s): *edusa* Fabricius,1777; *bellidice* Ochsenheimer,1808; *persica* Bienert,1869; *#nitida* Verity,[1908].
- 333. Zegris eupheme (Esper,[1804])** (Pieridae) Synonym(s): *eupheme* Esper,[1804]; *erethoe* Eversmann,1832; *tschudica* Herrich-Schäffer,[1851].

**Pterophoridae** (15 species)

- 334. Agdistis urmijensis Zagulyaev,1995** (Pterophoridae) Synonym(s): *urmijensis* Zagulyaev,1995
- 335. Cnaemidophorus rhododactylus (Fabricius,1787)** (Pterophoridae) Synonym(s): *#rhododactyla* [Denis & Schiffermüller],1775; *rhododactylus* Fabricius,1787; *koreana* Matsumura,1931; *#rhododactylus* Arenberger,1998
- 336. Emmelina monodactyla (Linnaeus,1758)** (Pterophoridae) Synonym(s): *monodactyla* Linnaeus,1758; *sibiricus* Caradja,1920.
- 337. Marasmarcha asiatica (Rebel,1902)** (Pterophoridae) Synonym(s): *asiatica* Rebel,1902
- 338. Marasmarcha ehrenbergiana Zeller,1841** (Pterophoridae) Synonym(s): *ehrenbergiana* Zeller,1841; *decolorum* Caradja,1920.
- 339. Marasmarcha iranica Arenberger,1999** (Pterophoridae) Synonym(s): *iranica* Arenberger,1999
- 340. Marasmarcha rhyodactyla (Staudinger,1871)** (Pterophoridae) Synonym(s): *rhyodactyla* Staudinger,1871; *uralski* Caradja,1920.
- 341. Merrifieldia malacodactyla (Zeller,1847)** (Pterophoridae) Synonym(s): *malacodactyla* Zeller,1847; *meridionalis* Staudinger,1880; *indocta* Meyrick,1913; *subtilis* Caradja,1920; *parca* Meyrick,1921; *subcretosa* Meyrick,1922; *phaeoschista* Meyrick,1923; *luteodactyla* Turati,1926; *rayatella* Amsel,1959; *insularis* Bigot,1961; *livadiensis* Zagulyaev & Filippova,1976; *transdambinus* Fazekas,1986; *garrigae* Bigot & Picard,1989; *moullignieri* Nel,1991; *inopinata* Bigot, Nel & Picard,1993
- 342. Merrifieldia tridactyla (Linnaeus,1758)** (Pterophoridae) Synonym(s): *tridactyla* Linnaeus,1758; *tetradactyla* Linnaeus,1758; *niveidactylus* Stephens,1829; *fuscolimbatus* Duponchel,1844; *icterodactyla* Mann,1855; *exilidactyla* Buszko,1975.
- 343. Platyptilia farfarella Zeller,1867** (Pterophoridae) Synonym(s): *farfarella* Zeller,1867; *molopias* Meyrick,1906; *gonodactyla* Hori,1934 nec [Denis & Schiffermüller],1775.
- 344. Pterophorus pentadactylus (Linnaeus,1758)** (Pterophoridae) Synonym(s): *pentadactylus* Linnaeus,1758; *tridactyla* Scopoli,1763; *sulphurea* Staudinger,1880.
- 345. Stenoptilia mannii (Zeller,1852)** (Pterophoridae) Synonym(s): *mannii* Zeller,1852; *megalochra* Meyrick,1930
- 346. Wheeleria elbursi (Arenberger,1981)** (Pterophoridae) Synonym(s): *elbursi* Arenberger,1981

- 347. *Wheeleria obsoleta* (Zeller,1841)** (Pterophoridae) **Synonym(s):** *obsoleta* Zeller,1841; *confusa* Herrich-Schäffer,1855; *desertorum* Zeller,1867; *gonoscia* Meyrick,1922; *marrubii* Wasserthal,1970.
- 348. *Wheeleria phlomidis* (Staudinger,1871)** (Pterophoridae) **Synonym(s):** *phlomidis* Staudinger,1871

### **Pyralidae** (15 species)

- 349. *Acrobasis glaucella* Staudinger,1859** (Pyralidae) **Synonym(s):** *glaucella* Staudinger,1859; *fallouella* Ragonot,1871; *anatolica* Caradja,1910.
- 350. *Aglossa pinguinalis* (Linnaeus,1758)** (Pyralidae) **Synonym(s):** *pinguinalis* Linnaeus,1758; *marmorella* Geoffroy,1785; *marmoratella* Villers,1789; *pinguiculus* Haworth,1809; *pinguinatus* Haworth,1809; *rubralis* Hampson,1900; *guicciardii* Constantino,1922; *sanaensis* Rebel,1930; *maroccana* Schmidt,1934
- 351. *Ancylosis* (Heterographis) *pyrethrella* (Herrich-Schäffer,1860)** (Pyralidae) **Synonym(s):** *pyrethrella* Herrich-Schäffer,1860; *strictella* Mann,1861; *ignibasella* Ragonot,1887; *inflammatella* Ragonot,1901; *trilineata* Amsel,1961.
- 352. *Arsissa ramosella* (Herrich-Schäffer,[1855])** (Pyralidae) **Synonym(s):** *ramosella* Herrich-Schäffer,[1855]; *albiramosella* Caradja,1916; *caradjaella* Zerny,1939.
- 353. *Auxacia bilineella* (Ragonot,1887)** (Pyralidae) **Synonym(s):** *bilineella* Ragonot,1887
- 354. *Bradyrrhoa gilveolella* (Treitschke,1833)** (Pyralidae) **Synonym(s):** *gilveolella* Treitschke,1833
- 355. *Hypsopygia* (s.str.) *costalis* (Fabricius,1775)** (Pyralidae) **Synonym(s):** *costalis* Fabricius,1775; *#lugens* Rebel,1903; *syriaca* Zerny,1914; *lugens* Caradja,1917.
- 356. *Megasis libanoticella* Zerny,1934** (Pyralidae) **Synonym(s):** *libanoticella* Zerny,1934; *#libanotidella* Osthelder,1934.
- 357. *Nomophila noctuella* ([Denis & Schifferrmüller],1775)** (Pyralidae) **Synonym(s):** *noctuella* [Denis & Schifferrmüller],1775; *hybridalis* Hübner,1796; *indistinctalis* Walker,1859
- 358. *Plodia interpunctella* (Hübner,[1813])** (Pyralidae) **Synonym(s):** *interpunctella* Hübner,[1813]; *interpunctalis* Hübner,[1825]; *zeae* Fitch,1856; *castaneella* Reutti,1898; *latercula* Hampson,1901; *glycinivora* Matsumura,1917; *glycinivorella* Matsumura,1932.
- 359. *Pyralis farinalis* (Linnaeus,1758)** (Pyralidae) **Synonym(s):** *farinalis* Linnaeus,1758; *erecta* Fourcroy,1785; *farinatus* Haworth,1810; *domesticalis* Zeller,1847; *fraterna* Butler,1879; *tenerifensis* Rebel,1906; *meridionalis* Schmidt,1934; *orientalis* Amsel,1961 nec Fabr.,1794.
- 360. *Pyrausta* (Haematia) *despicata* (Scopoli,1763)** (Pyralidae) **Synonym(s):** *despicata* Scopoli,1763; *cespitalis* [Denis & Schifferrmüller],1775.
- 361. *Pyrausta* (s.str.) *aurata* (Scopoli,1763)** (Pyralidae) **Synonym(s):** *aurata* Scopoli,1763; *punicealis* [Denis & Schifferrmüller],1775; *nepoldalis* Lederer,1863; *meridionalis* Staudinger,1880 nec Wcke,1871; *inciae* Koçak,1982
- 362. *Scoparia subfusca* Haworth,[1811]** (Pyralidae) **Synonym(s):** *subfusca* Haworth,[1811]; *graecella* Stainton,1849; *subfuscalis* Guenée,1854; *scotica* White,1872; *cembrae* auct. nec Haworth,1811; *cembralis* auct. nec Gn.,1854; *#sugfusca* Leraut,1984
- 363. *Sitochroa verticalis* (Linnaeus,1758)** (Pyralidae) **Synonym(s):** *verticalis* Linnaeus,1758; *inversa* Fourcroy,1785; *cinctalis* Treitschke,1829

### **Saturniidae** (2 species)

- 364. *Saturnia* (Heraea) *cephalariae* Romanoff,1885** (Saturniidae) **Synonym(s):** *cephalariae* Romanoff,1885
- 365. *Saturnia* (s.str.) *pyri* ([Denis & Schifferrmüller],1775)** (Saturniidae) **Synonym(s):** *pyri* [Denis & Schifferrmüller],1775; *teherana* Lenek,1970; *pinkerae* Kobes,1980.

### **Satyridae** (42 species)

- 366. *Arethusana arethusana* ([Denis & Schifferrmüller],1775)** (Satyridae) **Synonym(s):** *arethusana* [Denis & Schifferrmüller],1775; *erythia* Hübner,1805; *pontica* Heyne,[1895]; *sultana* Wagner,1929; *hakkarica* Koçak,1975 (sensu Hesselbarth et al.,1995: 917).
- 367. *Brintesia circe* (Fabricius,1775)** (Satyridae) **Synonym(s):** *circe* Fabricius,1775; *proserpina* Denis & Schifferrmüller,1775; *maga* Fruhstorfer,1909; *venefica* Fruhstorfer,1909; *gabala* Gaillard,1959; *maladettae* Varin,1962.
- 368. *Chazara* (Neochazara) *anthe* (Hoffmannsegg,1804)** (Satyridae) **Synonym(s):** *anthe* Hoffmannsegg,1804; *persephone* Hübner,1805; *anthe* Ochsenheimer,1807.
- 369. *Chazara* (s.str.) *bischoffi* (Herrich-Schäffer,[1846])** (Satyridae) **Synonym(s):** *bischoffi* Herrich-Schäffer,[1846]
- 370. *Chazara* (s.str.) *briseis* (Linnaeus,1764)** (Satyridae) **Synonym(s):** *briseis* Linnaeus,1764; *daedale* Bergsträßer,1780; *bataia* Fruhstorfer,1909; *interjecta* Verity,1916; *variabilis* Varin,1958; *pictonica* Varin,1958.
- 371. *Coenonympha* (s.str.) *glycerion* (Borkhausen,1788)** (Satyridae) **Synonym(s):** *iphis* [Denis & Schifferrmüller],1775 nec Dru.,1773; *amyntas* auctorum; *glycerion* Borkhausen,1788; *hero* Fabricius,1793 nec Linnaeus,1761; *manto* Schrank,1801; *mandana* Kirby,1862; *tiphonides* Staudinger,1901.
- 372. *Coenonympha* (s.str.) *leander* (Fabricius,1787)** (Satyridae) **Synonym(s):** *#leander* Esper,[1784]; *leander* Fabricius,1787
- 373. *Coenonympha* (s.str.) *pamphilus* (Linnaeus,1758)** (Satyridae) **Synonym(s):** *pamphilus* Linnaeus,1758; *menalcas* Poda,1761; *nephele* Hufnagel,1766; *marginata* Heyne,1894; *orantia* Fruhstorfer,1908; *scota* Verity,1911; *infrarasa* Verity,1926; *juldusica* Verity,1926; *asiaemontium* Verity,1926; *euxina* Verity,1926; *posteuxina* Verity,1926; *londonii* Verity,1926; *neolyllus* De Lattin,1950



- 374. Coenonympha (s.str.) saadi (Kollar,[1849])** (Satyridae) Synonym(s): *saadi* Kollar,[1849]; *iphias* Eversmann,1851.
- 375. Esperarge (s.str.) clymene (Fabricius,1787)** (Satyridae) Synonym(s): *#climene* Esper,[1783]; *clymene* Fabricius,1787; *boroeas* Latreille,1803; *synclimene* Hübner,[1819].
- 376. Hipparchia (Neohipparchia) fatua (Freyer,1844)** (Satyridae) Synonym(s): *fatua* Freyer,1844; *sichaea* Lederer,1857; *insularis* Turati,1929; *elineata* Verity,1937; *infracastanea* Verity,1938; *kosswigi* De Lattin,1950.
- 377. Hipparchia (Neohipparchia) parisatis (Kollar,[1849])** (Satyridae) Synonym(s): *parisatis* Kollar,[1849]; *macrophthalmus* Eversmann,1851; *malatinus* Heyne,1894; *ismail* Gross & Ebert,1975; *huochenensis* Huang & Zhou,2000.
- 378. Hipparchia (Parahipparchia) pellucida (Stauder,1924)** (Satyridae) Synonym(s): *pellucida* Stauder,1924; *cotys* Jachontov,1935; *hesselbarthi* Kudrna,1976.
- 379. Hipparchia (s.str.) syriaca (Staudinger,1871)** (Satyridae) Synonym(s): *syriaca* Staudinger,1871; *attikana* Fruhstorfer,1907; *meschetica* Jachontov,1915; *tokatensis* Gross,1959.
- 380. Hyponephele (s.str. (Ereminephele)) naricina (Staudinger,1870)** (Satyridae) Synonym(s): *naricina* Staudinger,1870
- 381. Hyponephele (s.str. (Ereminephele)) naricoides Gross,1977** (Satyridae) Synonym(s): *naricoides* Gross,1977
- 382. Hyponephele (s.str. (Iranonephele)) kocaki Eckweiler,1978** (Satyridae) Synonym(s): *kocaki* Eckweiler,1978
- 383. Hyponephele (s.str. (Tengrinephele)) cadusia (Lederer,1869)** (Satyridae) Synonym(s): *cadusia* Lederer,1869
- 384. Hyponephele (s.str. (Turaninephele)) wagneri (Herrich-Schäffer,[1846])** (Satyridae) Synonym(s): *wagneri* Herrich-Schäffer,[1846]; *schmidt* Bang-Haas,1927.
- 385. Hyponephele (s.str.) lupina (Costa,[1836])** (Satyridae) Synonym(s): *lupina* Costa,[1836]
- 386. Hyponephele (s.str.) lycaon (Rottensburg,1775)** (Satyridae) Synonym(s): *lycaon* Rottensburg,1775; *#lycaon* Kuhn,1774; *eudora* Esper,1778; *janirula* Esper,1800; *rufomaculata* Korb,2005
- 387. Hyponephele (s.str.) lycaonoides Weiss,1978** (Satyridae) Synonym(s): *lycaonoides* Weiss,1978; *#lycaonides* Nazari,2003
- 388. Hyponephele (s.str.) zuvandica Samodurov & Koroljev,1996** (Satyridae) Synonym(s): *zuvandica* Samodurov & Koroljev,1996; *#zuvandi* Korb,2000
- 389. Kirinia (Melike) roxelana (Cramer,[1777])** (Satyridae) Synonym(s): *roxelana* Cramer,[1777]; *#anatolica* Koçak,1989
- 390. Lasiommata maera (Linnaeus,1758)** (Satyridae) Synonym(s): *maera* Linnaeus,1758; *pandion* Poda,1761; *hiera* Fab.,1777; *maja* Fuchs,1873; *monotonia* Schilde,1885; *crimea* Bang-Haas,1907; *atabryris* Fruhstorfer,1909.
- 391. Lasiommata megera (Linnaeus,1767)** (Satyridae) Synonym(s): *megera* Linnaeus,1767; *caledonia* Verity,1911; *alticola* Verity,1911; *pseudoadrasta* Stauder,1922; *infrapallens* Verity,1922; *ocellator* Verity,1923; *pallidedepulverata* Verity,1923.
- 392. Lasiommata menava Moore,1865** (Satyridae) Synonym(s): *menava* Moore,1865.
- 393. Maniola (Telmessiola) telmessia (Zeller,1847)** (Satyridae) Synonym(s): *telmessia* Zeller,1847; *pallens* Butler,1868; *kurdistan* Heyne,1894; *oreas* Le Cerf,1912; *maniolides* Le Cerf,1912; *ornata* Turati & Fiori,1930; *marenigrans* Verity,1938; *pelekasi* Kattulas & Koutsafikis,1978.
- 394. Maniola (s.str.) jurtina (Linnaeus,1758)** (Satyridae) Synonym(s): *jurtina* Linnaeus,1758; *janira* Linnaeus,1758; *lemur* Schrank,1801.
- 395. Melanargia (Turcargia) hylata (Ménétriés,1832)** (Satyridae) Synonym(s): *hylata* Ménétriés,1832
- 396. Melanargia (Turcargia) syriaca (Oberthür,1894)** (Satyridae) Synonym(s): *syriaca* Oberthür,1894
- 397. Minois dryas (Scopoli,1763)** (Satyridae) Synonym(s): *dryas* Scopoli,1763; *drymeia* Fruhstorfer,1908; *spiripontis* Gaillard,1959; *bucica* Varin,1961; *annae* Douma-Petridou & Koufsoftikis,1988.
- 398. Pararge aegeria (Linnaeus,1758)** (Satyridae) Synonym(s): *aegeria* Linnaeus,1758; *meone* Cramer,1782; *egeria* Ochsenheimer,1807; *sardoa* Verity,1908.
- 399. Proterebia afra (Fabricius,1787)** (Satyridae) Synonym(s): *afra* Fabricius,1787
- 400. Pseudochazara (Achazara) telephassa (Geyer,[1827])** (Satyridae) Synonym(s): *telephassa* Geyer,[1827]
- 401. Pseudochazara (s.str.) beroe (Freyer,[1843])** (Satyridae) Synonym(s): *beroe* Freyer,[1843]
- 402. Pseudochazara (s.str.) geyeri (Herrich-Schäffer,[1846])** (Satyridae) Synonym(s): *geyeri* Herrich-Schäffer,[1846]; *aristonicus* Fruhstorfer,[1911]; *selim* Gross,1978; *karsicola* Gross,1978
- 403. Pseudochazara (s.str.) mamurra (Herrich-Schäffer,[1846])** (Satyridae) Synonym(s): *mamurra* Herrich-Schäffer,[1846]; *sintenis* Staudinger,1895
- 404. Pseudochazara (s.str.) pelopea (Klug,1832)** (Satyridae) Synonym(s): *pelopea* Klug,1832
- 405. Satyrus (Asatyrus (s.str.)) iranicus Schwingenschuss,1939** (Satyridae) Synonym(s): *iranicus* Schwingenschuss,1939; *kyros* Gross & Ebert,1975.
- 406. Satyrus (s.str.(s.str.)) favonius Staudinger,[1892]** (Satyridae) Synonym(s): *favonius* Staudinger,[1892]
- 407. Satyrus (s.str.(s.str.)) parthicus Lederer,1869** (Satyridae) Synonym(s): *parthicus* Lederer,1869; *pimpla* sensu Wiltshire,1957

## Sesiidae (1 species)

- 408. Chamaesphacia schizoceriformis (Kolenati,1846)** (Sesiidae) Synonym(s): *schizoceriformis* Kolenati,1846

**Sphingidae** (3 species)

- 409. Laothoe populeti (Bienert,[1870])** (Sphingidae) Synonym(s): *populeti* Bienert,[1870]; *populetorum* Staudinger,1887; *syriaca* Gehlen,1932; *intermedia* Gehlen,1934.
- 410. Macroglossum stellatarum (Linnaeus,1758)** (Sphingidae) Synonym(s): *stellatarum* Linnaeus,1758; *nigra* Cosmovici,1892.
- 411. Sphingonaepiopsis gorgoniades (Hübner,[1819])** (Sphingidae) Synonym(s): *gorgon* Esper,[1804] nec Cr.,1777; *gorgoniades* Hübner,[1819]; *chloroptera* von Mentzer,1974.

**Tineidae** (4 species)

- 412. Edosa lardatella (Lederer,1858)** (Tineidae) Synonym(s): *lardatella* Lederer,1858
- 413. Hapsifera luridella Zeller,1847** (Tineidae) Synonym(s): *luridella* Zeller,1847; *eburnea* Butler,1881; *palaestinis* Rebel,1901; *baliopsamma* Meyrick,1921; *torulosa* Turati,1919; *cyrenaicensis* Turati,1924; *pustulatella* Lucas,1942 nec Zell.,1852; *kerbelella* Amsel,1949; *asiatica* Amsel,1949; *susaella* Amsel,1959
- 414. Niditinea tugurialis (Meyrick,1932)** (Tineidae) Synonym(s): *tugurialis* Meyrick,1932; *unipunctella* Zagulyaev,1960
- 415. Perissomastix (Aphrodoxa) wiltshirella (G.Petersen,1964)** (Tineidae) Synonym(s): *wiltshirella* G.Petersen,1964

**Tortricidae** (13 species)

- 416. Acleris quercinana (Zeller,1849)** (Tortricidae) Synonym(s): *quercinana* Zeller,1849; ? *mucidana* Peyerimhoff,1874
- 417. Aethes eberti Sutter & Karisch,2004** (Tortricidae) Synonym(s): *eberti* Sutter & Karisch,2004
- 418. Archips rosanus (Linnaeus,1758)** (Tortricidae) Synonym(s): *rosana* Linnaeus,1758; *avellana* Linnaeus,1758; *ameriana* Linnaeus,1758; *laevigana* [Denis & Schiffermüller],1775; *oxycanthana* Hübner,[1799]; *acerana* Hübner,[1799]; *nebulana* Stephens,1834
- 419. Ceratoxanthia iberica Baixeras,1992** (Tortricidae) Synonym(s): *iberica* Baixeras,1992
- 420. Cochylidia moguntiana (Rössler,1864)** (Tortricidae) Synonym(s): *moguntiana* Rössler,1864; *griseolana* W.Petersen,1924; *trafvenfelti* Benander,1949.
- 421. Cochyliomorpha armeniana (Joannis,1891)** (Tortricidae) Synonym(s): *armeniana* Joannis,1891.
- 422. Cochyliomorpha diana (Kennel,1899)** (Tortricidae) Synonym(s): *diana* Kennel,1899; *iraniana* Razowski,1963.
- 423. Cochyliis posterana Zeller,1847** (Tortricidae) Synonym(s): *posterana* Zeller,1847; *nubivagana* Zerny,1935
- 424. Eugnosta lathoniana (Hübner,[1800])** (Tortricidae) Synonym(s): *lathoniana* Hübner,[1800]
- 425. Fulvoclysia rjabovi Kuznetsov,1976** (Tortricidae) Synonym(s): *rjabovi* Kuznetsov,1976
- 426. Fulvoclysia subdolana (Kennel,1901)** (Tortricidae) Synonym(s): *subdolana* Kennel,1901; *subflavana* Amsel,1959
- 427. Lobesia (s.str.) vitisana (Jacquin,1788)** (Tortricidae) Synonym(s): *#botrana* [Denis & Schiffermüller],1775; *vitisana* Jacquin,1788; *rosmarinana* Milliere,1865.
- 428. Phtheochroa inopiana (Haworth,1811)** (Tortricidae) Synonym(s): *inopiana* Haworth,1811; *centrana* Herrich-Schäffer,1851; *obscurana* Kennel,1913; *pallidana* Caradja,1916.

**Zygaenidae** (4 species)

- 429. Jordanita (Tremewania) notata (Zeller,1847)** (Zygaenidae) Synonym(s): *notata* Zeller,1847
- 430. Zygaena (Mesembrynus) cuvieri Boisduval,1828** (Zygaenidae) Synonym(s): *cuvieri* Boisduval,1828
- 431. Zygaena (Mesembrynus) tamara Christoph,1889** (Zygaenidae) Synonym(s): *tamara* Christoph,1889
- 432. Zygaena (s.str.) filipendulae (Linnaeus,1758)** (Zygaenidae) Synonym(s): *filipendulae* Linnaeus,1758; *aries* Retzius,1783

**Contents:** **Kemal,M. & A.Ö.Koçak**, Results of the late summer entomological trip from Van to Ankara in 2013 (Insecta, Pterygota), p.1 - **Kemal,M. & A.Ö.Koçak**, Synonymous List of the Lepidoptera of Western Azerbaidjan Province (Iran), p.37- **editorial** p. 53.

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